

864240" F5099060

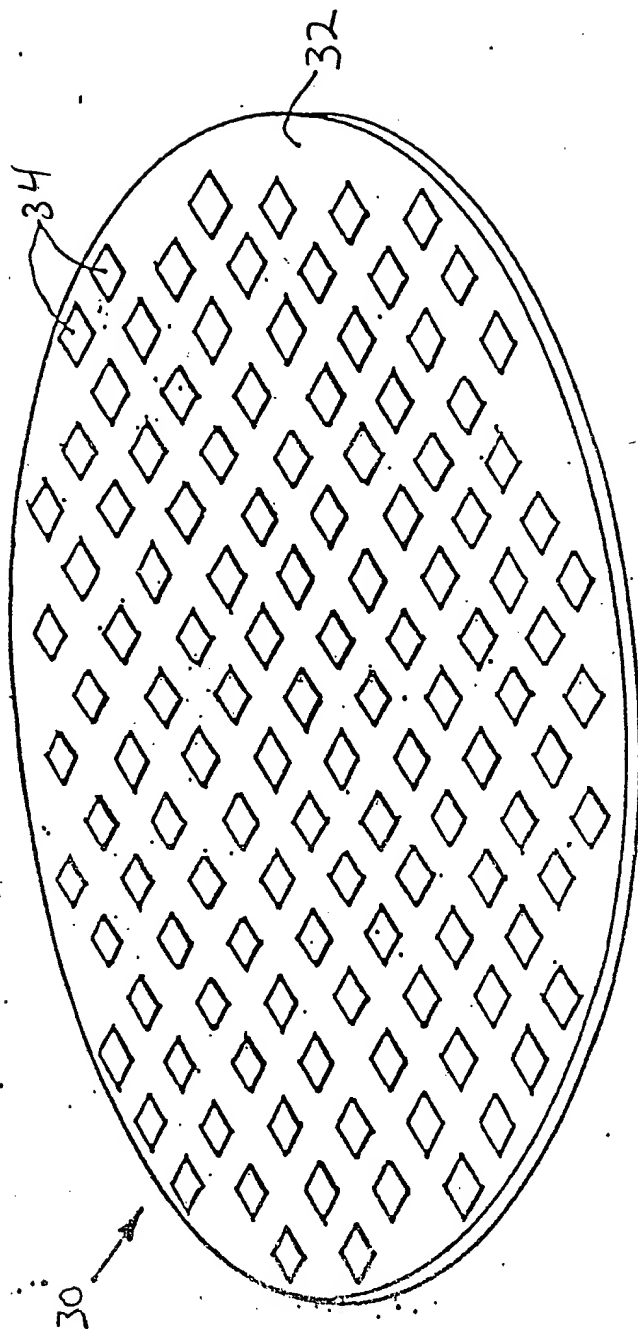


FIGURE 1

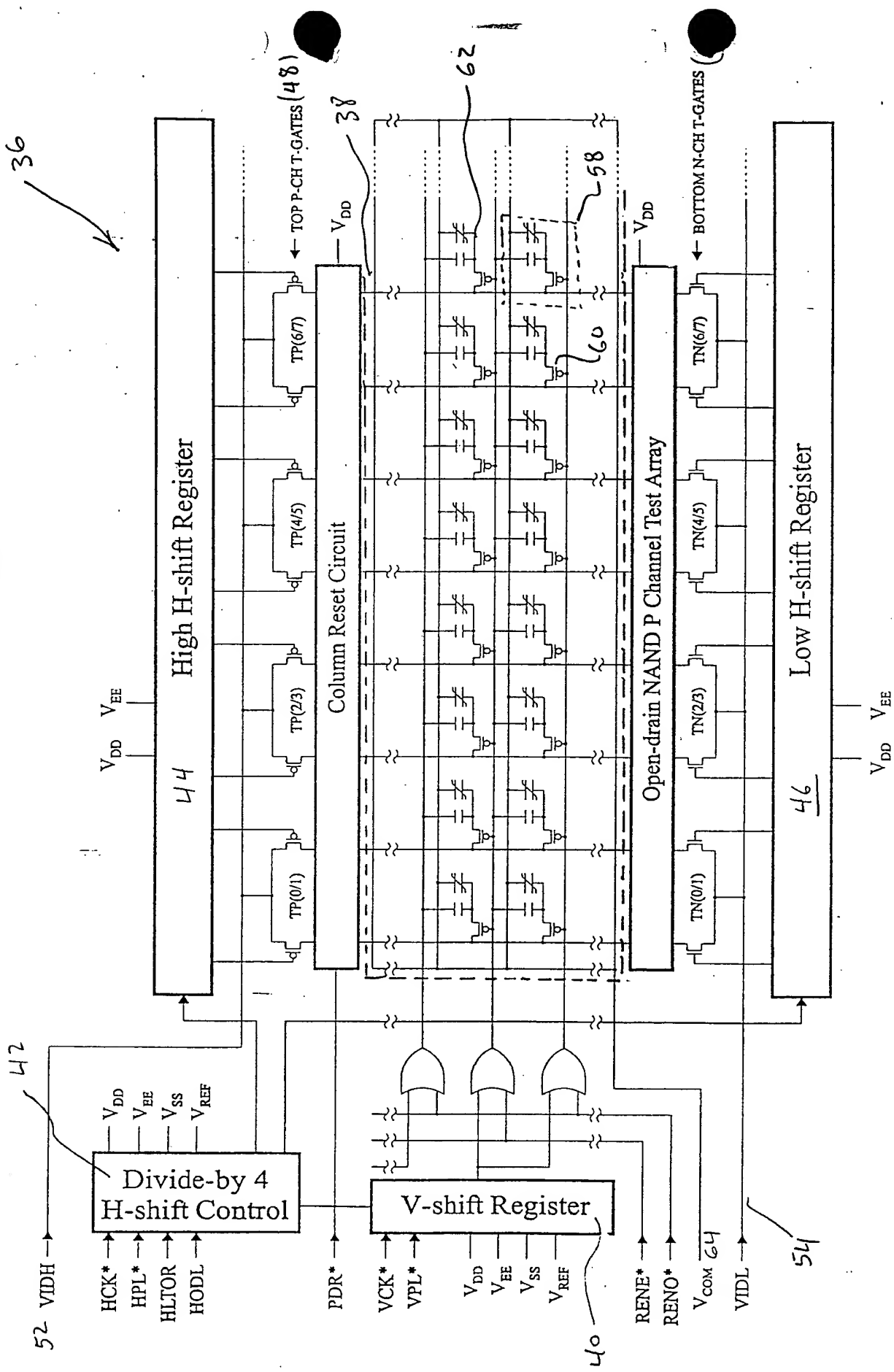


FIGURE 2A

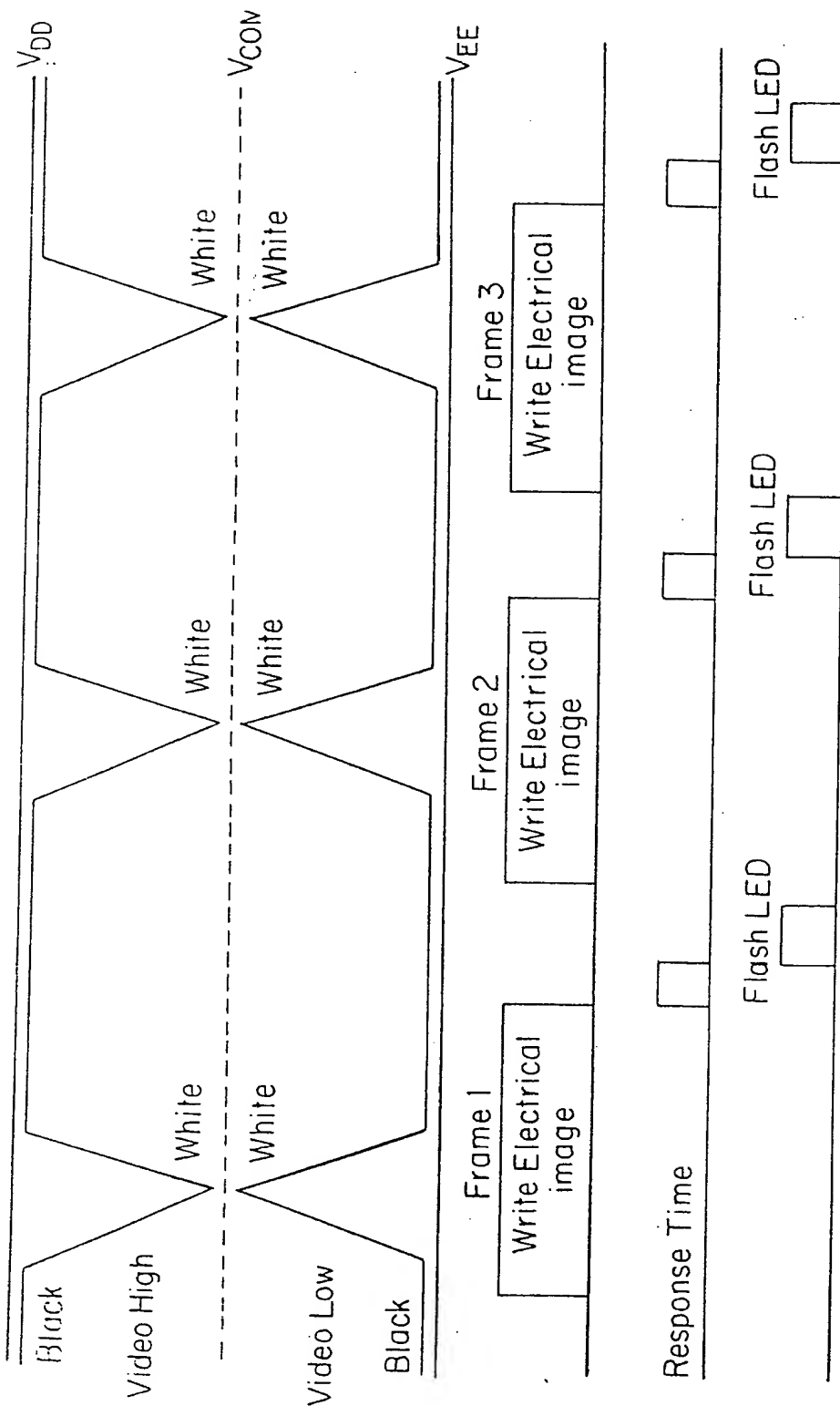


FIGURE 2B

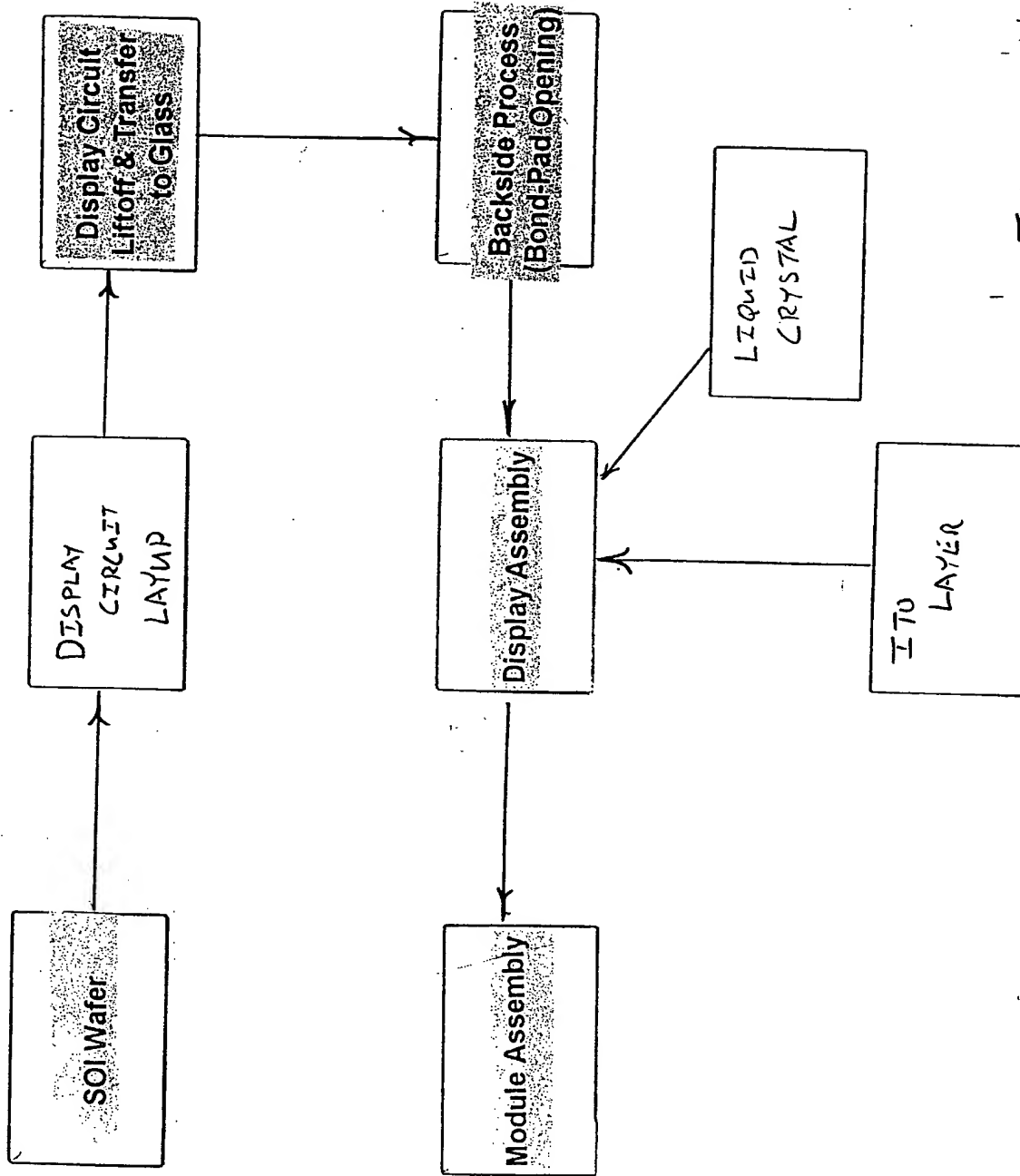
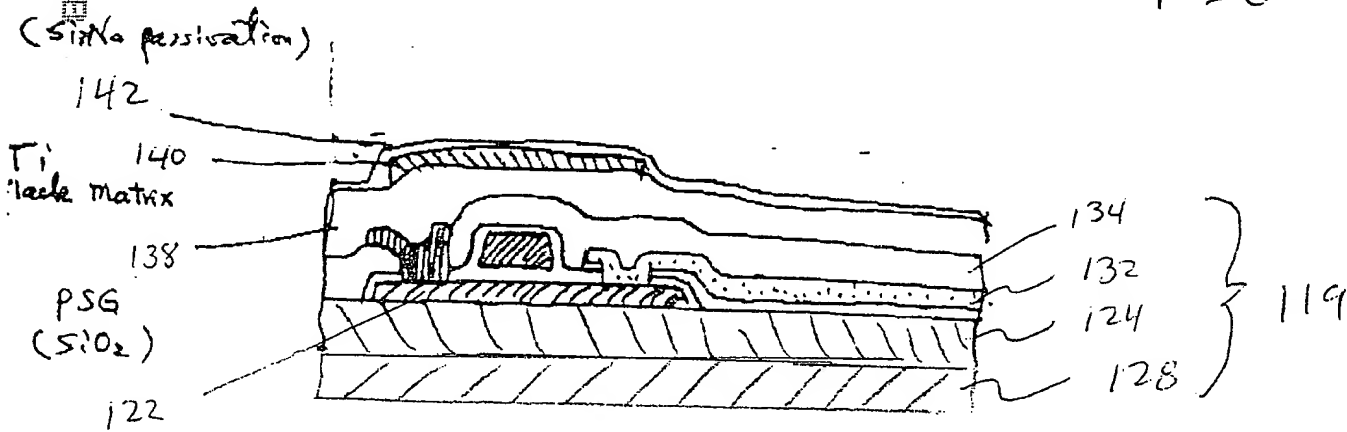
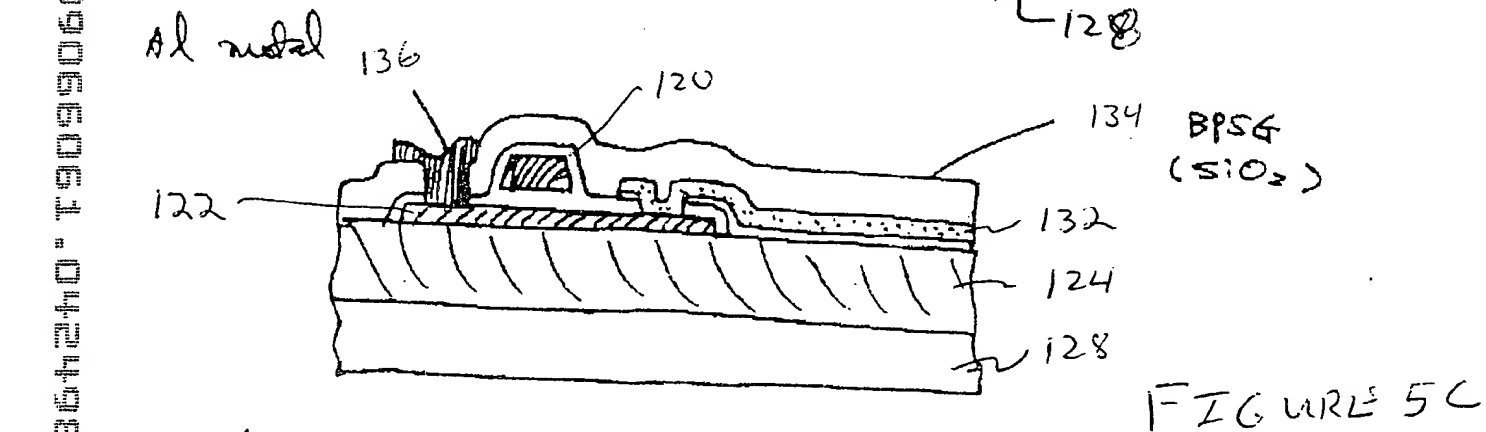
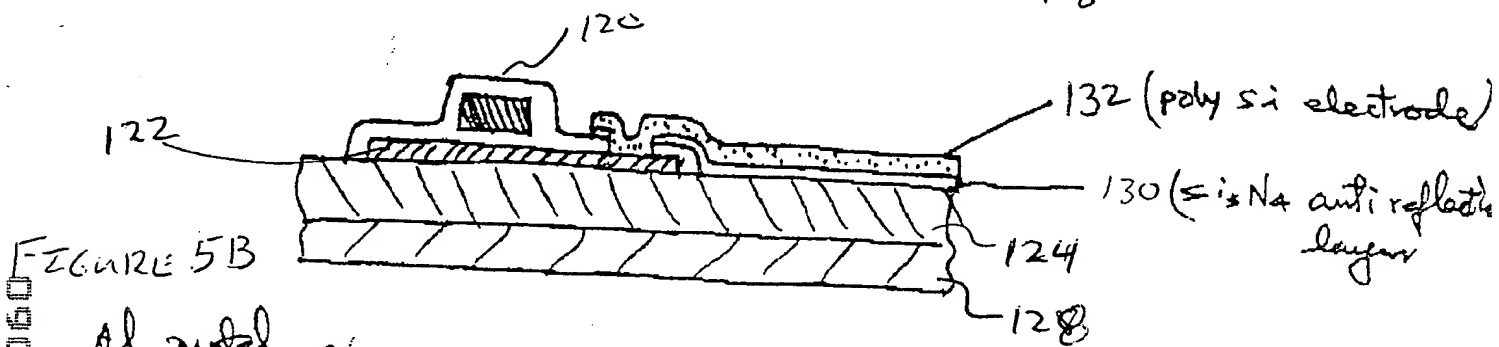
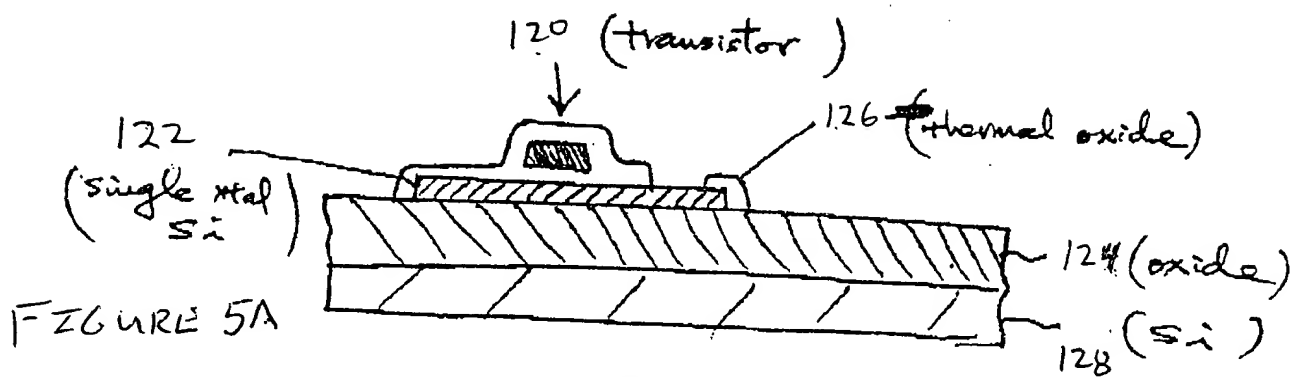
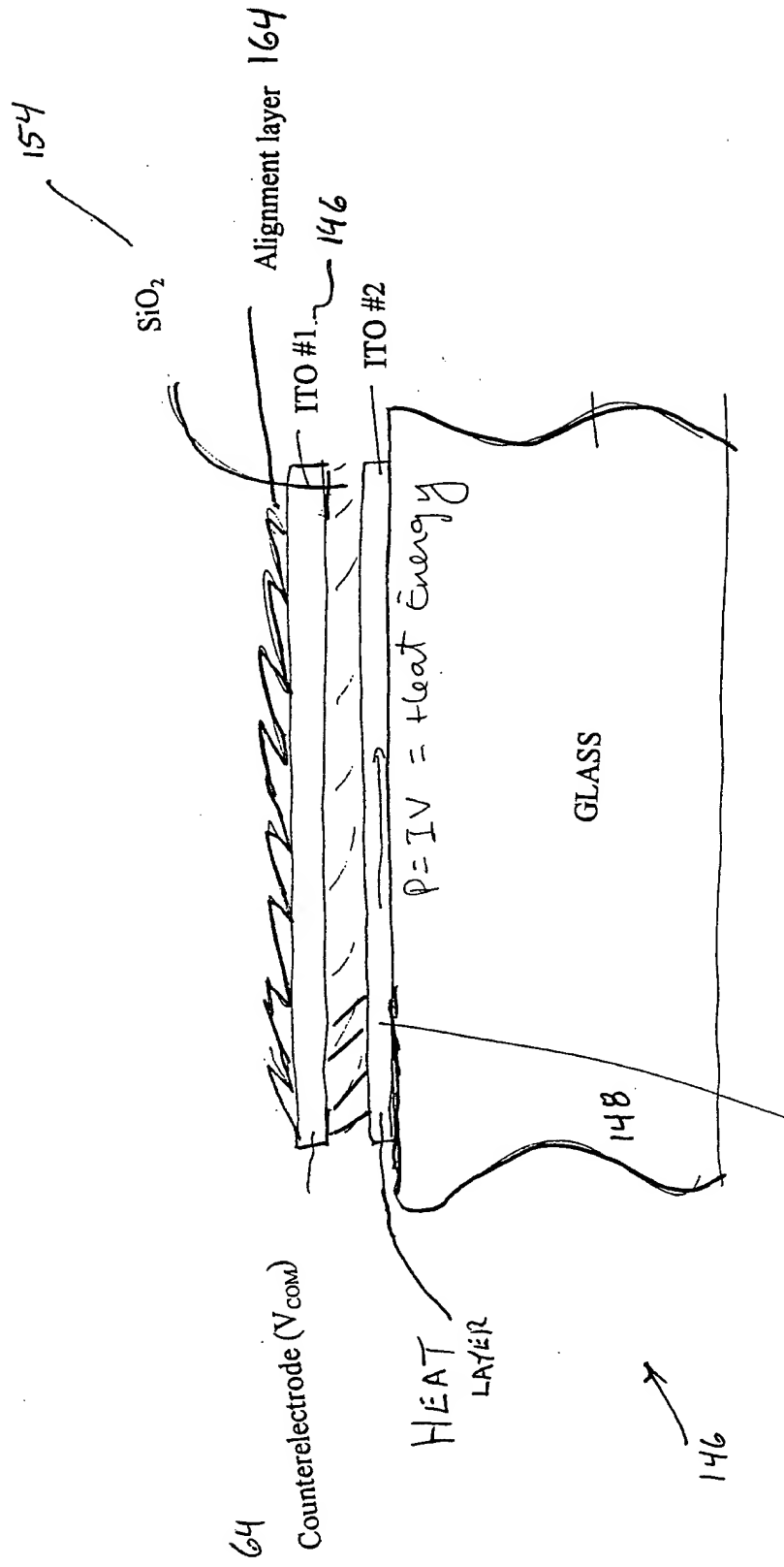


FIGURE 4





Patterned such that it covering only the pixel arrays when displayed formed.

FIGURE 6

864240" T9093060

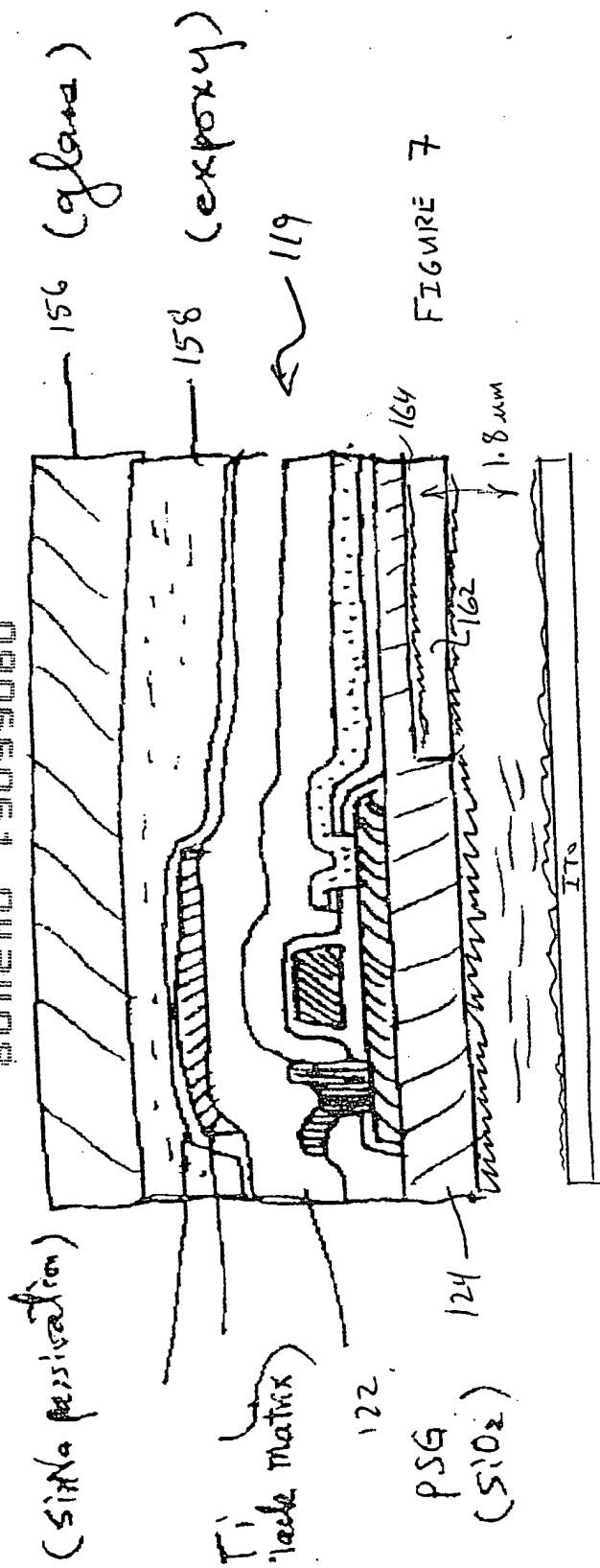


FIGURE 7

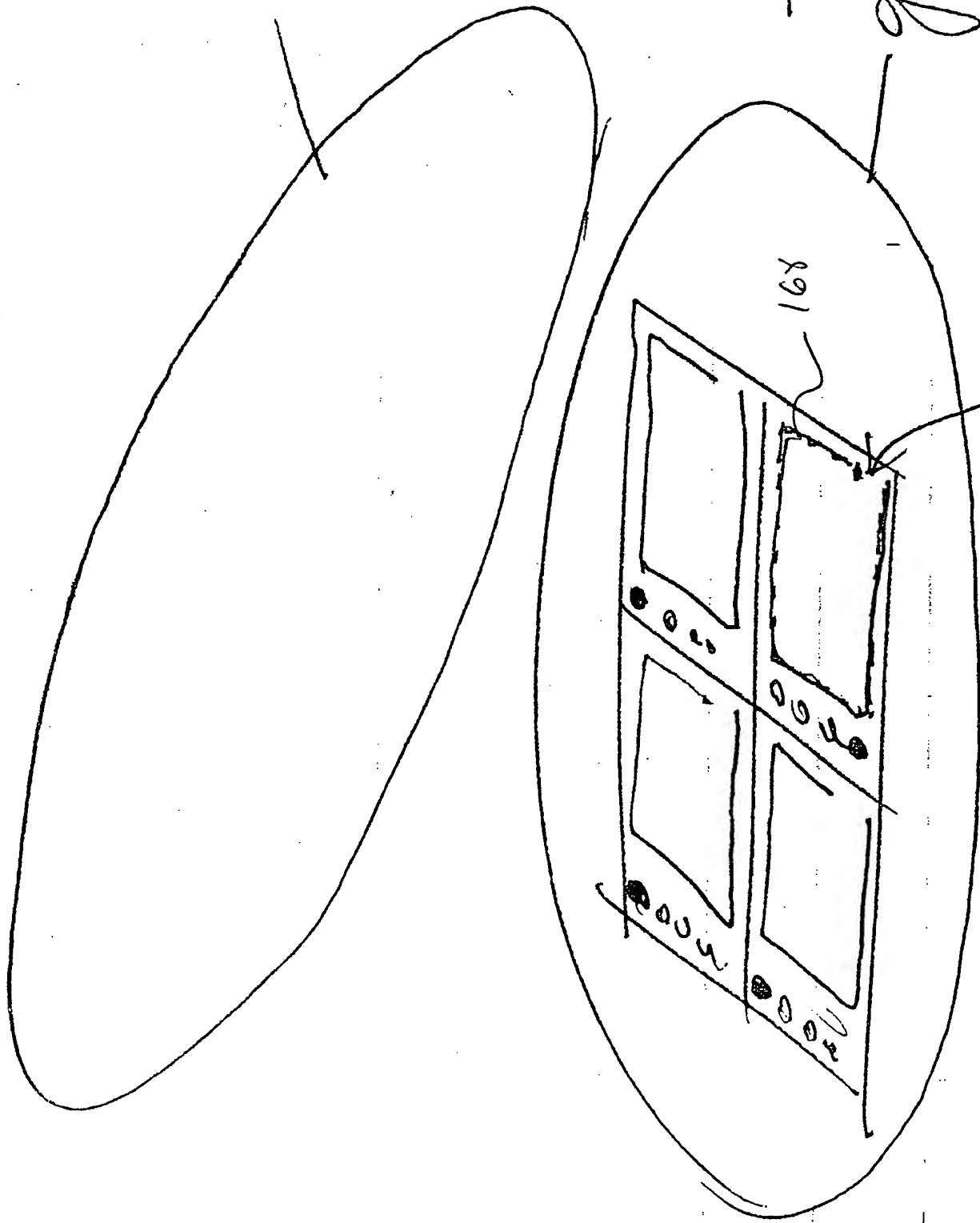
864240 T9099060

ITO
WAFER
146

TFT
glass

FIGURE 8

fill hole



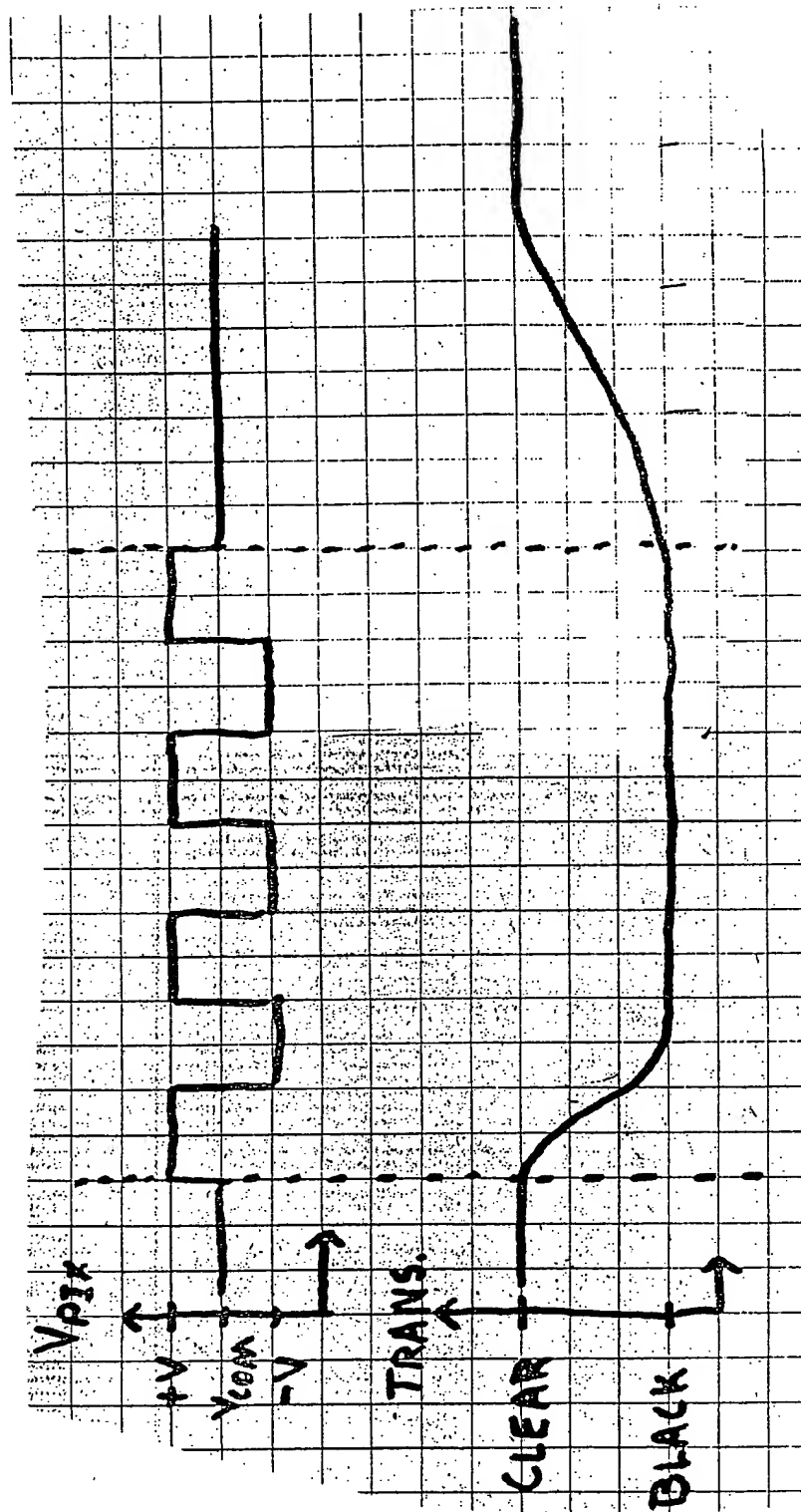
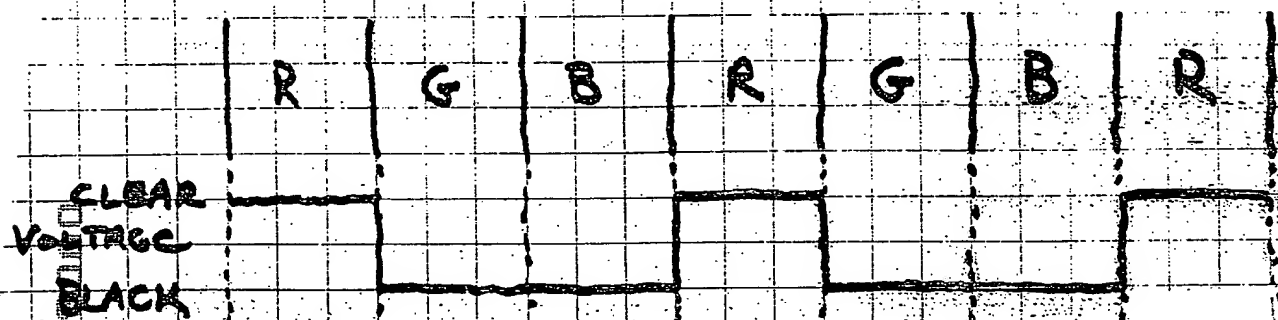
[illegible]

FIGURE 10

SINGLE RED PIXEL



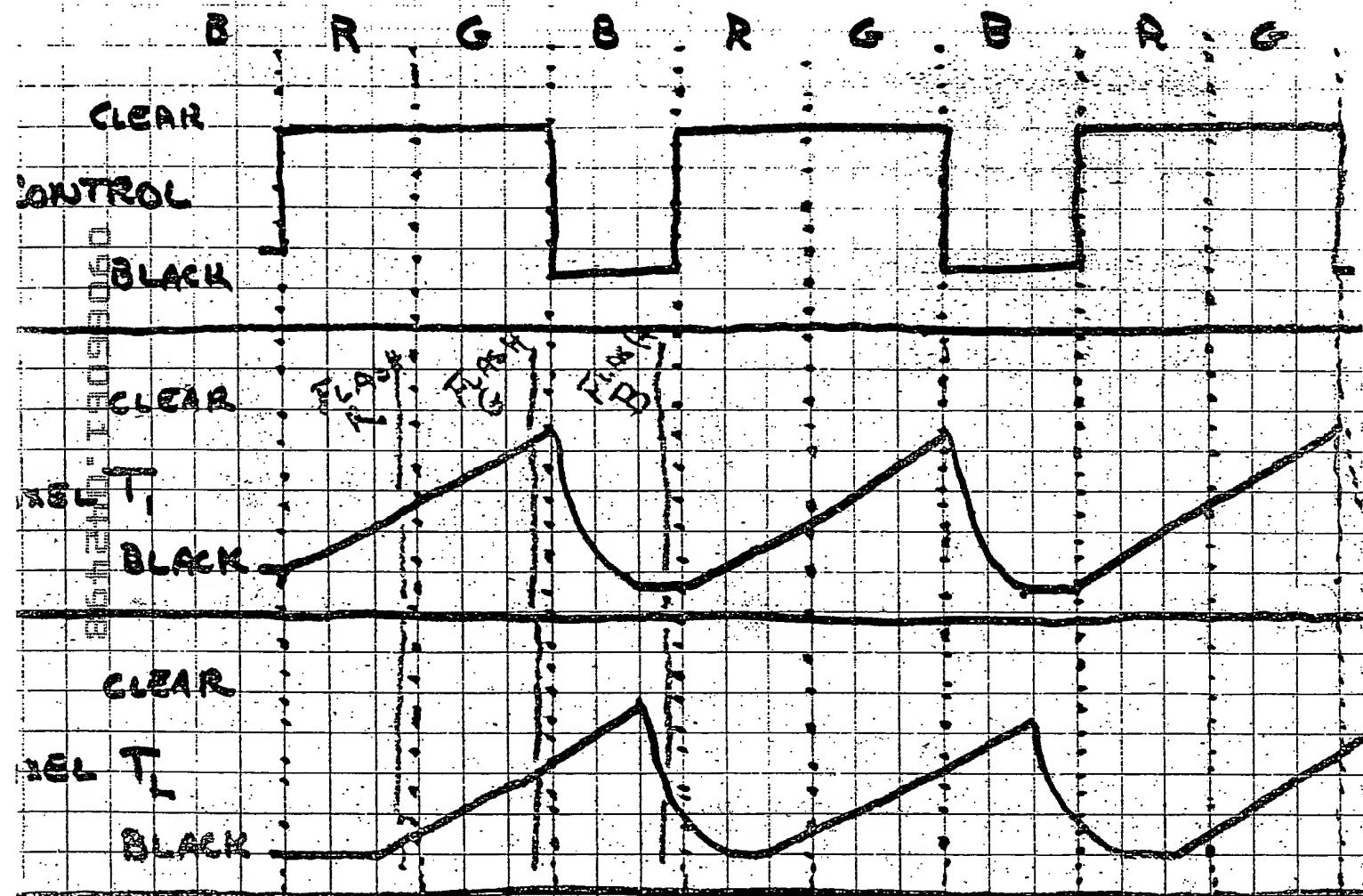
MAX CLEAR
TRANS
MAX BLACK

CURVE STARTED FROM MAX CLEAR

- NO STEADY STATE CONDITION

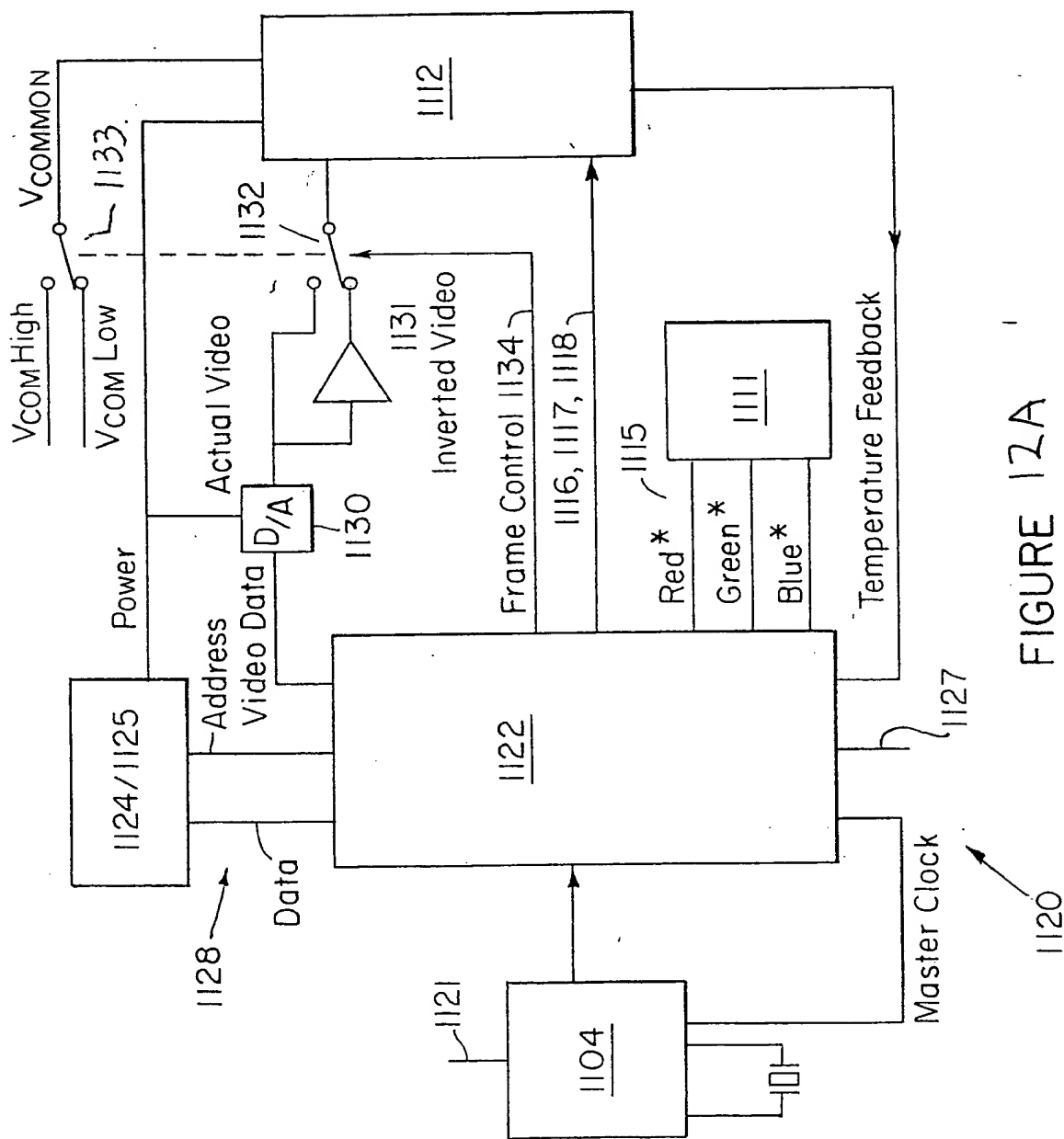
FIGURE 11A

INTERMEDIATE COLOR (RGB mix) EX: YELLOW



- PIXEL T_L IS DELAYED BY 3ms BECAUSE OF WRITE TIME

FIGURE 11B



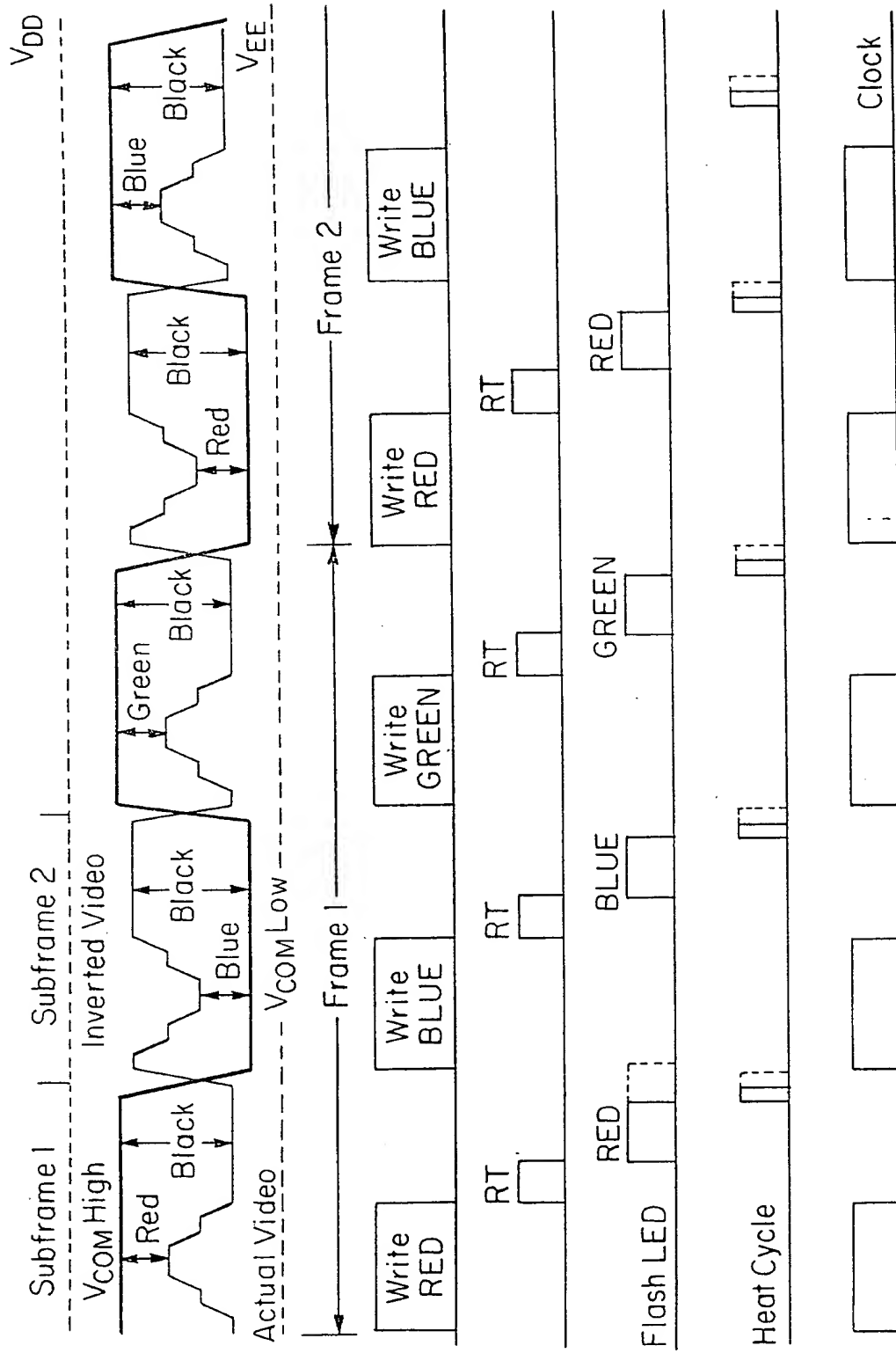


FIGURE 12B

V_{com} MODULATION

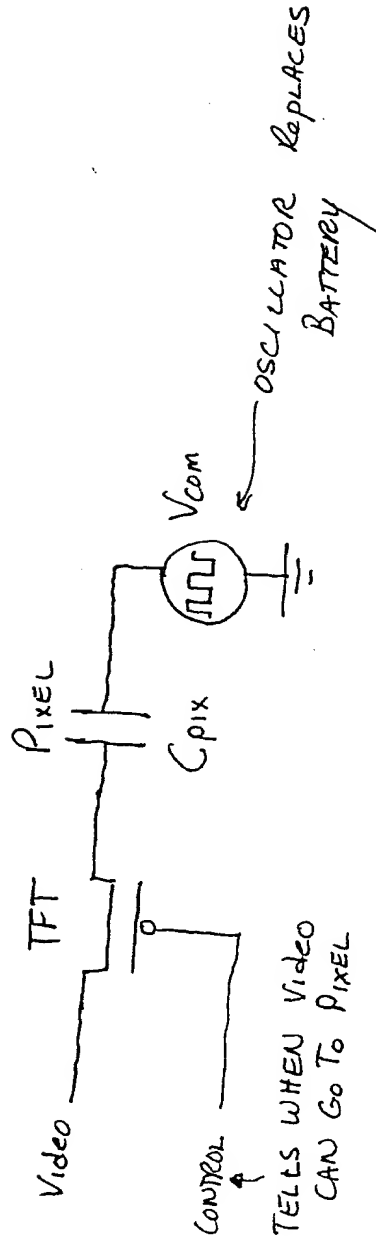


FIGURE 12C

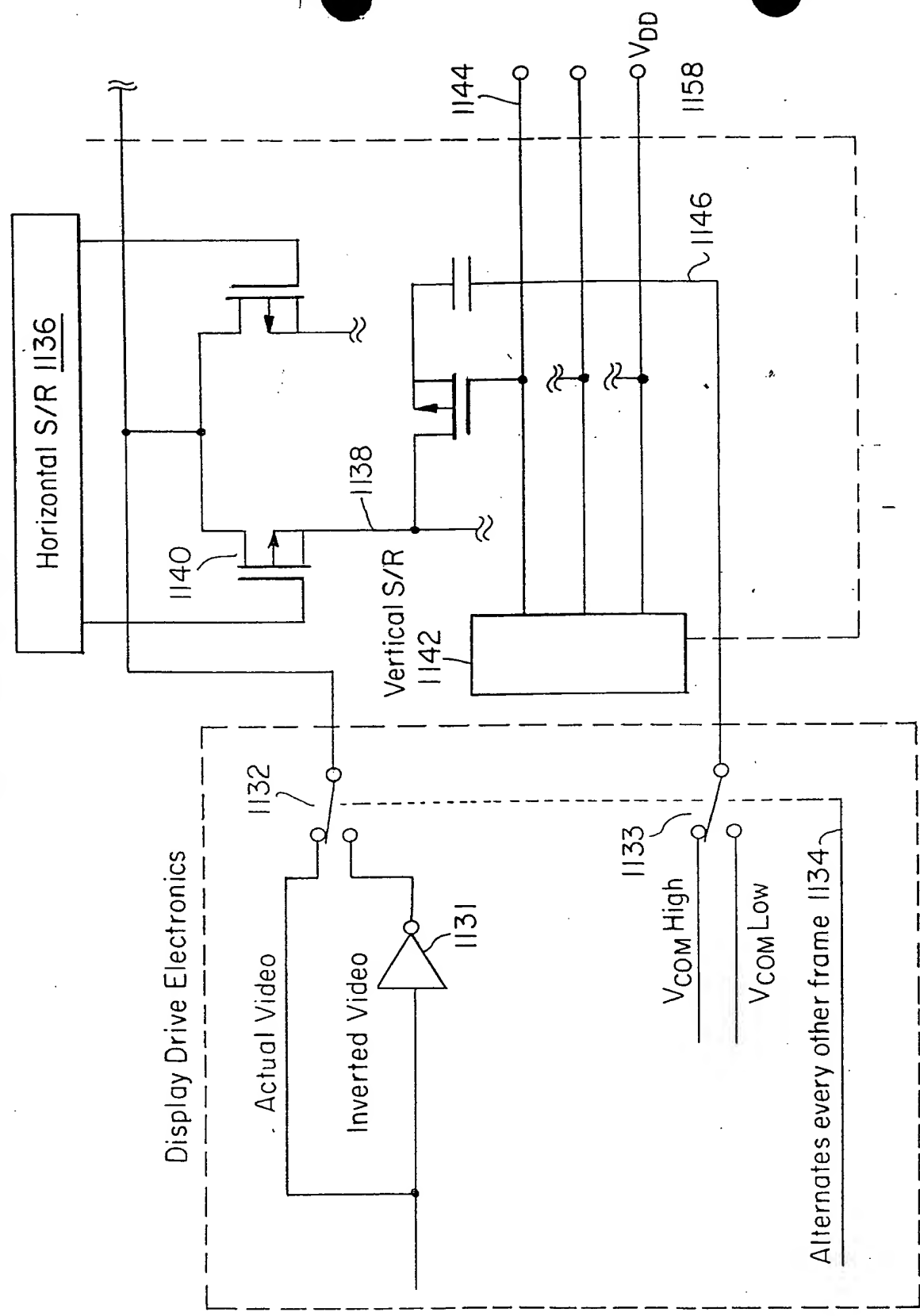


FIGURE 12D

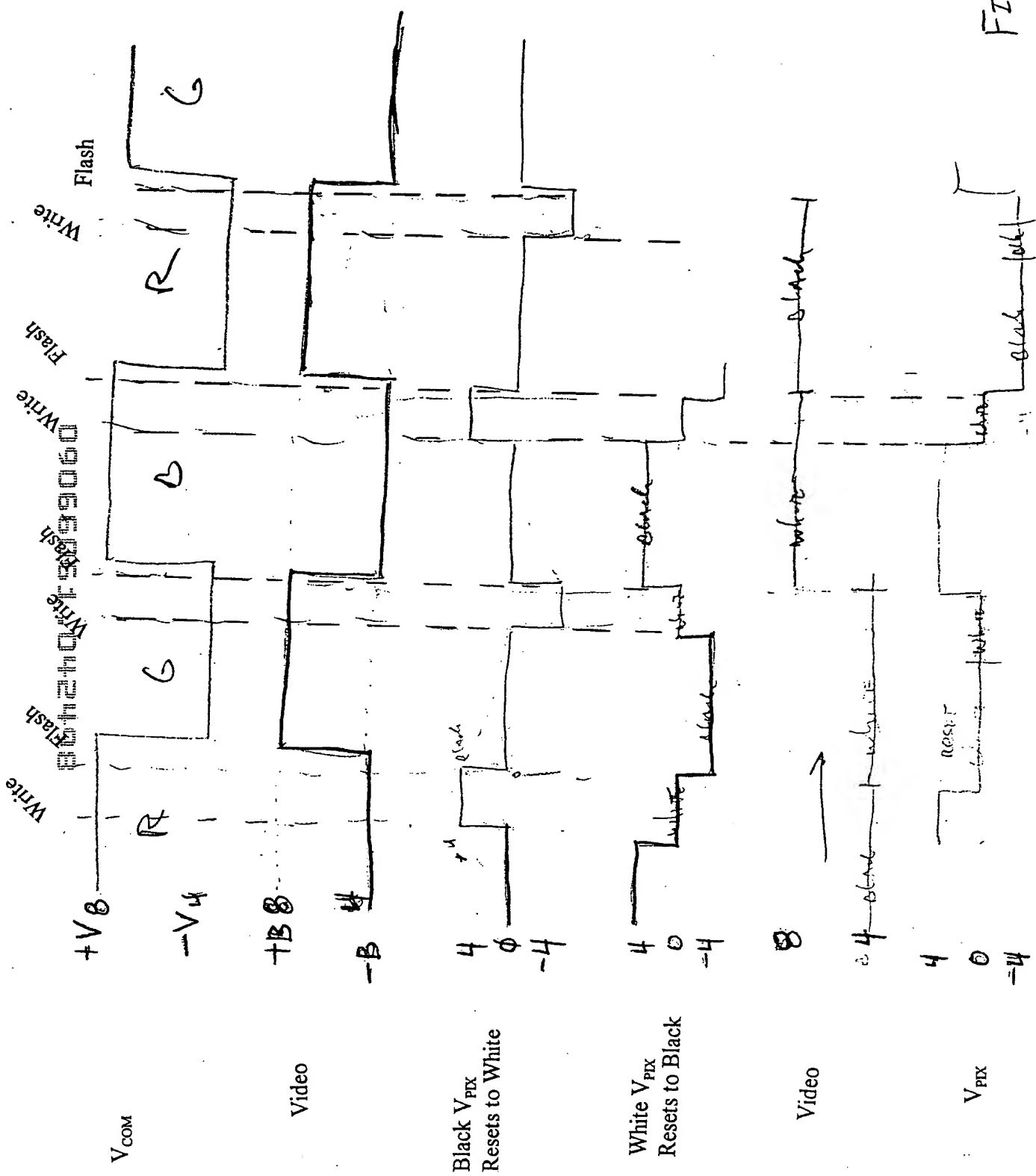


FIGURE 13

WRITE VIDEO → WAIT 100ns → RESET

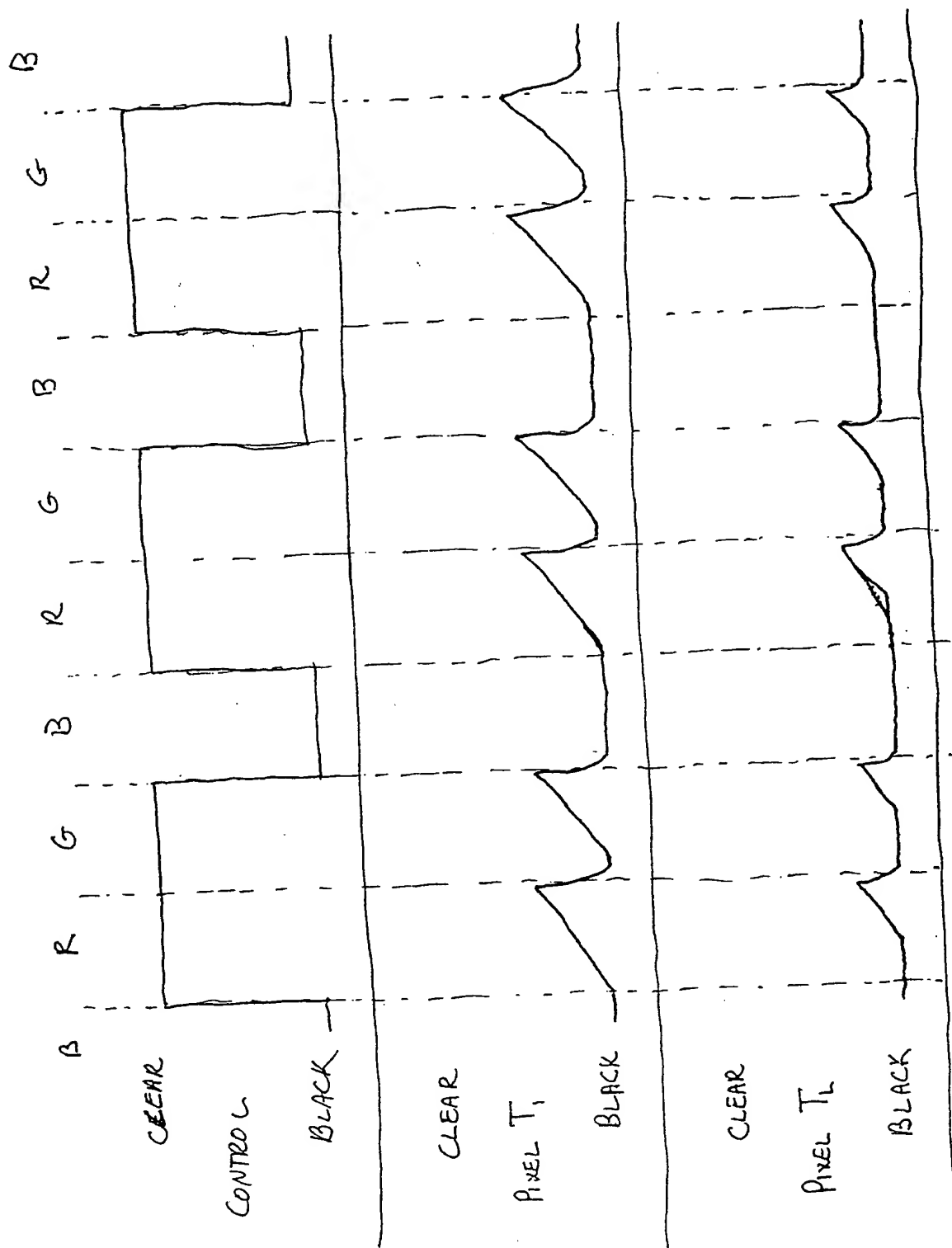


FIGURE 14

09063061-042432

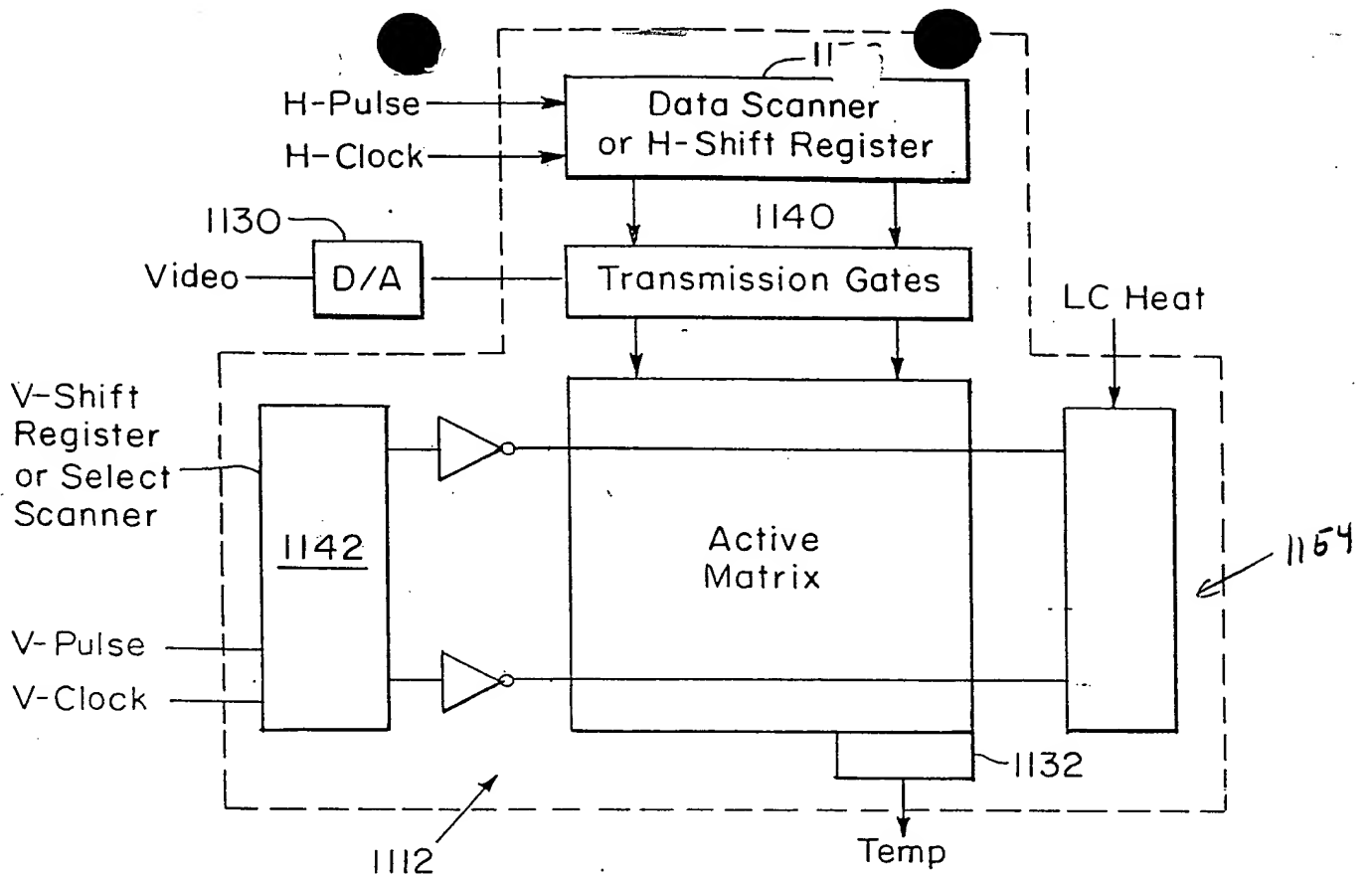


FIGURE 15A

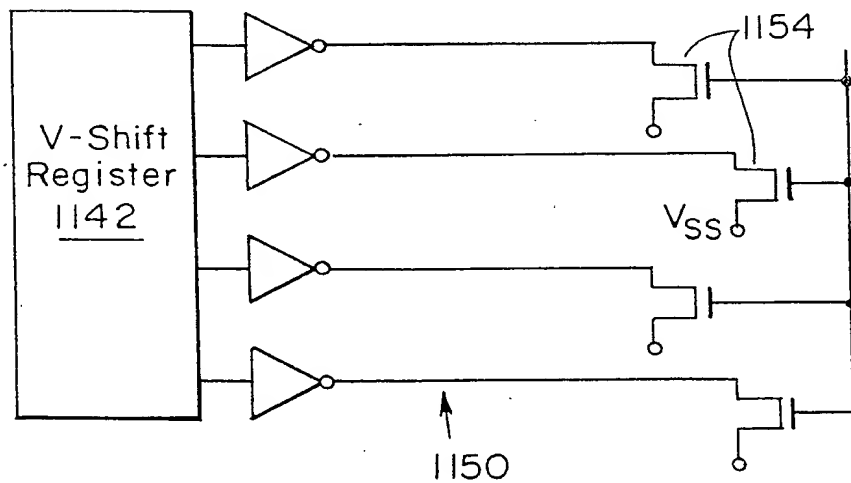


FIGURE 15B

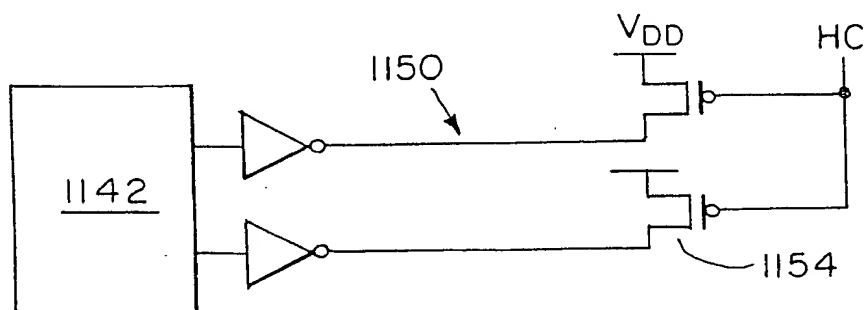


FIGURE 15C

09066061.042498

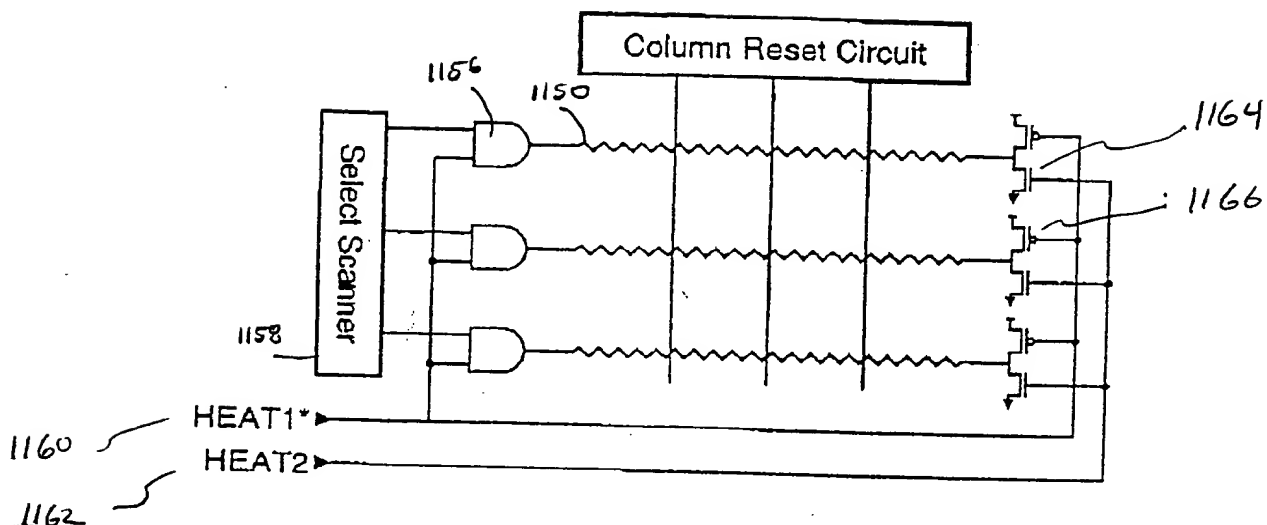


FIGURE 15D

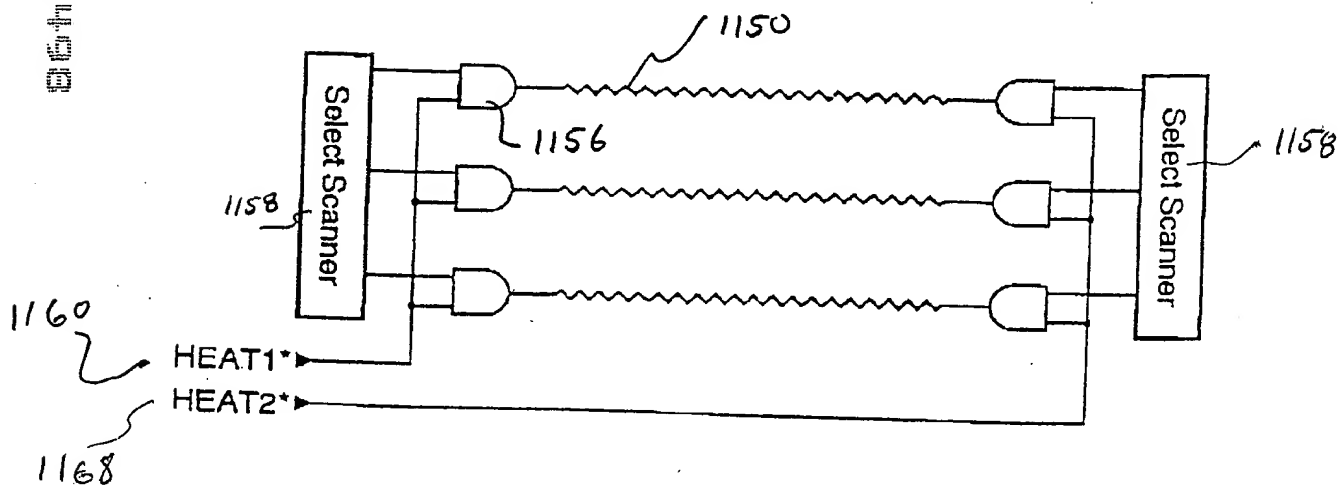


FIGURE 15E

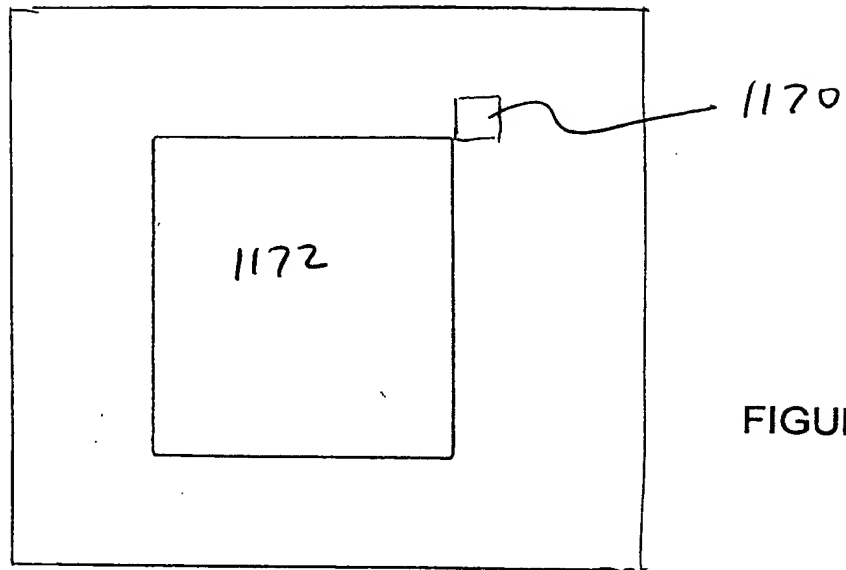


FIGURE 15F

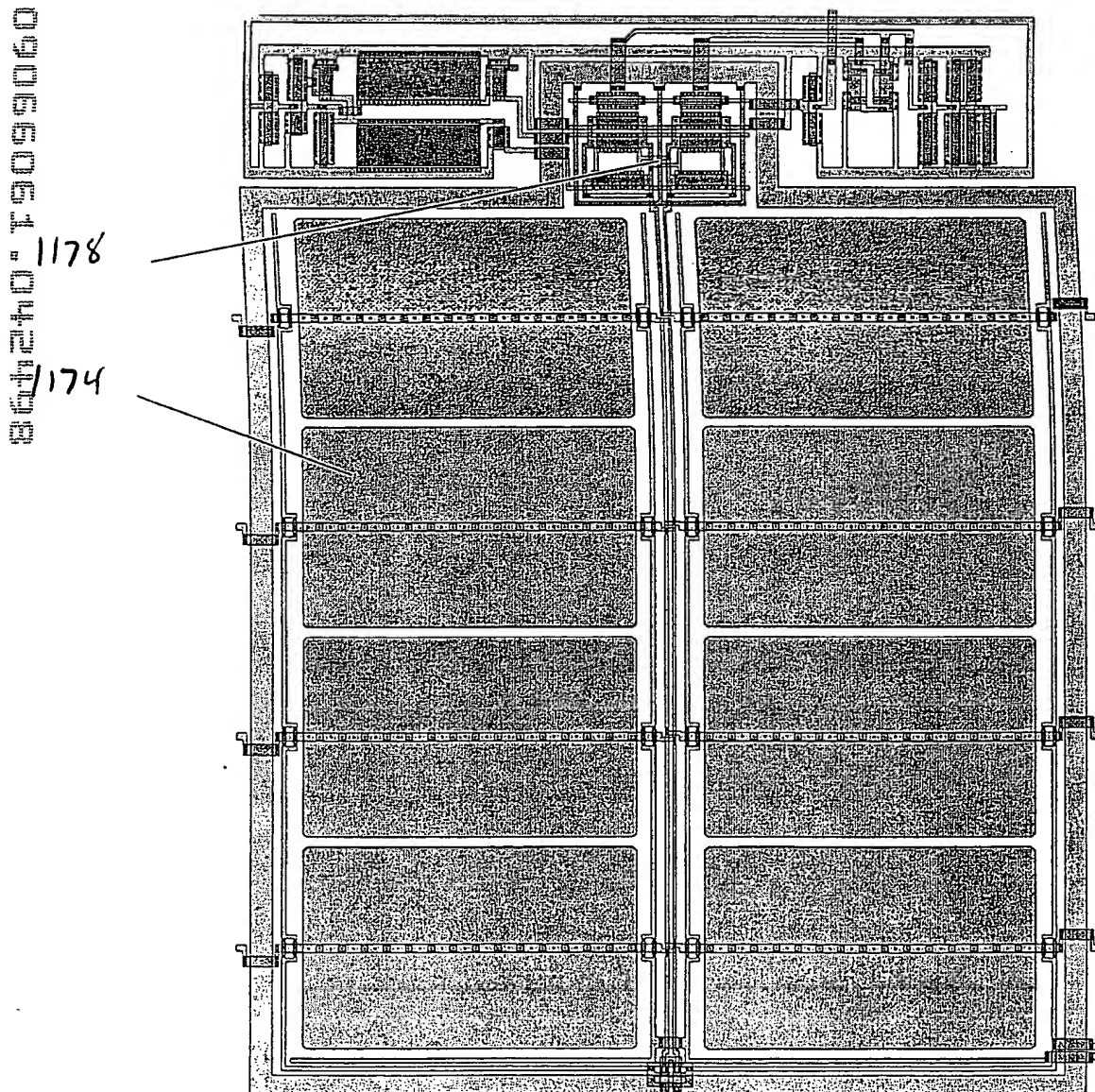


FIGURE 15G

09065061 042479B

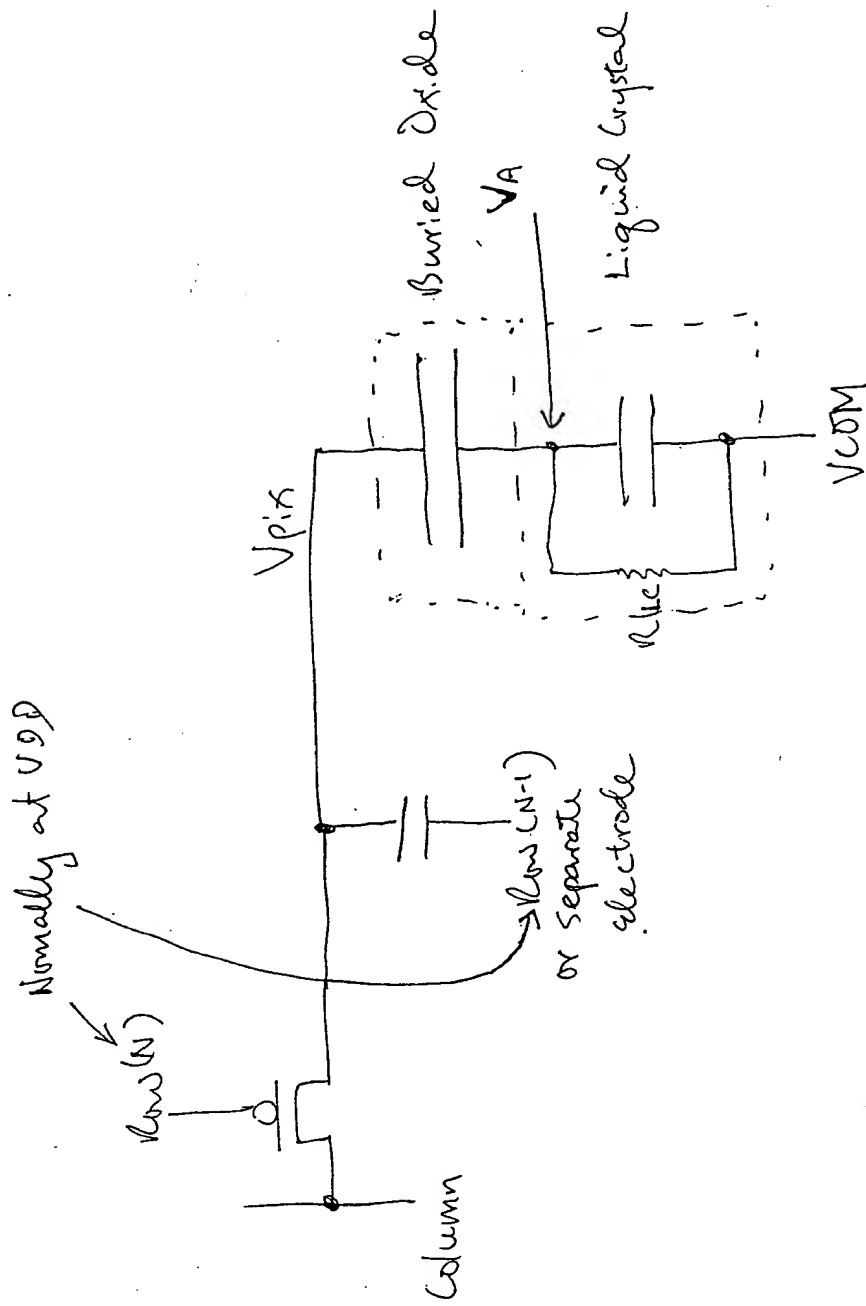
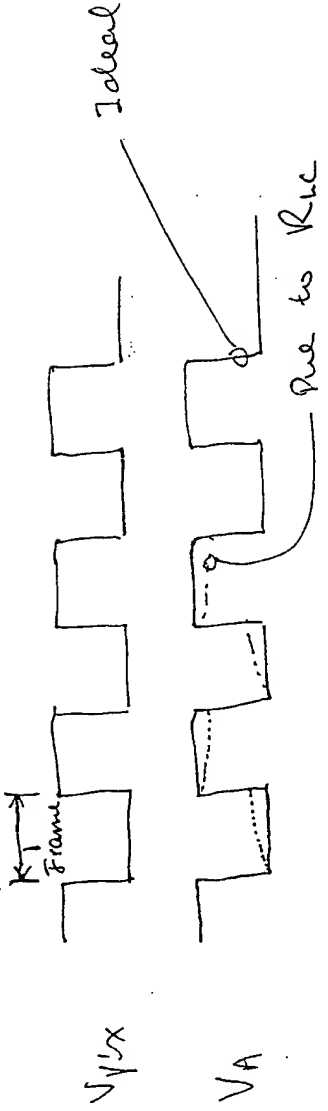
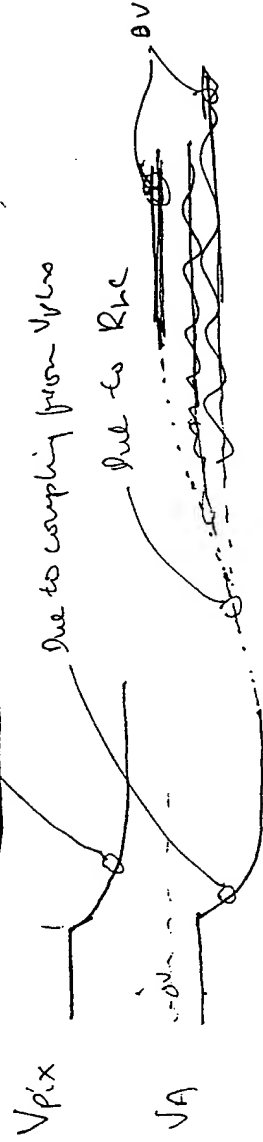


FIGURE 16

Normal Operation:



During Power Off:
Power (VDD)



Now Powers back on

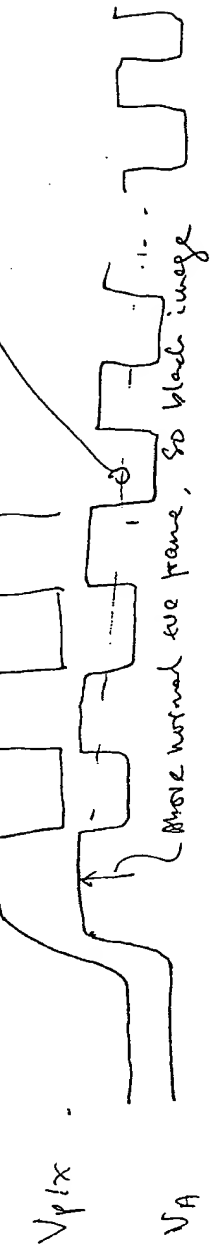


FIGURE 17

854240 "T5099060

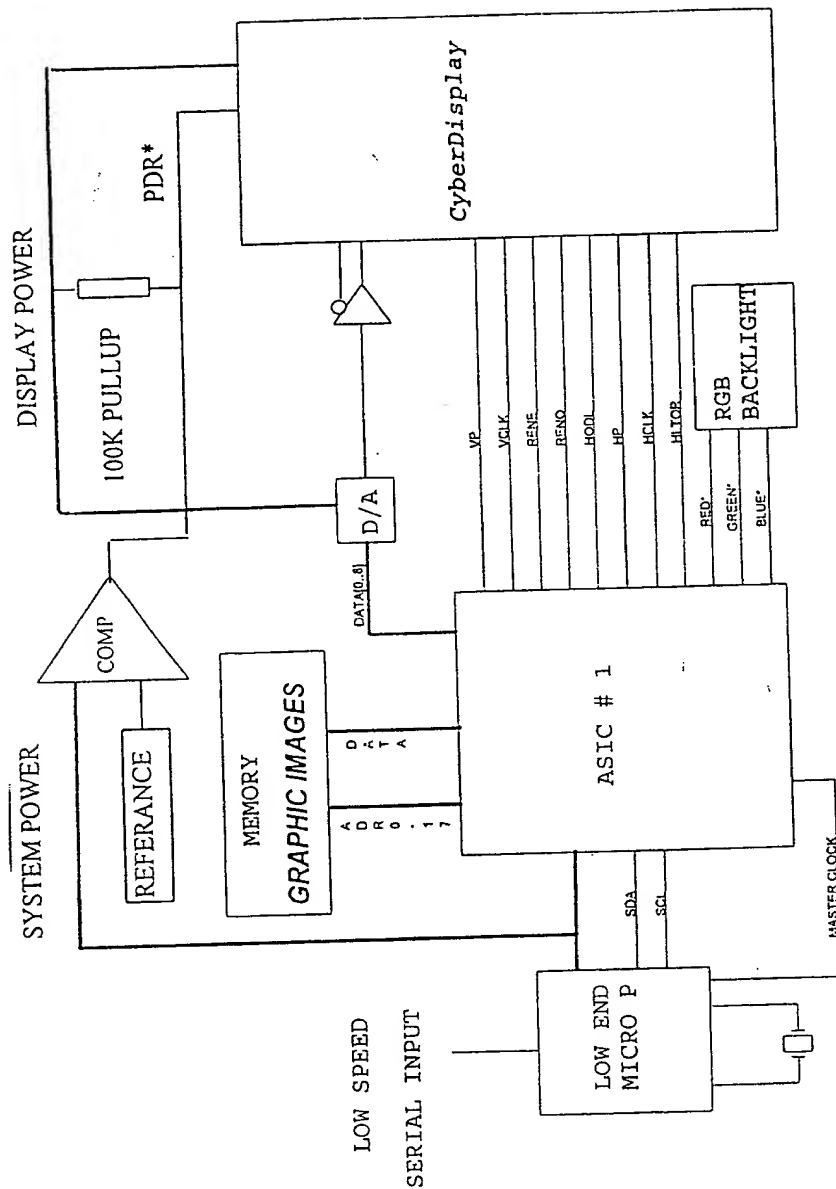


FIGURE 18

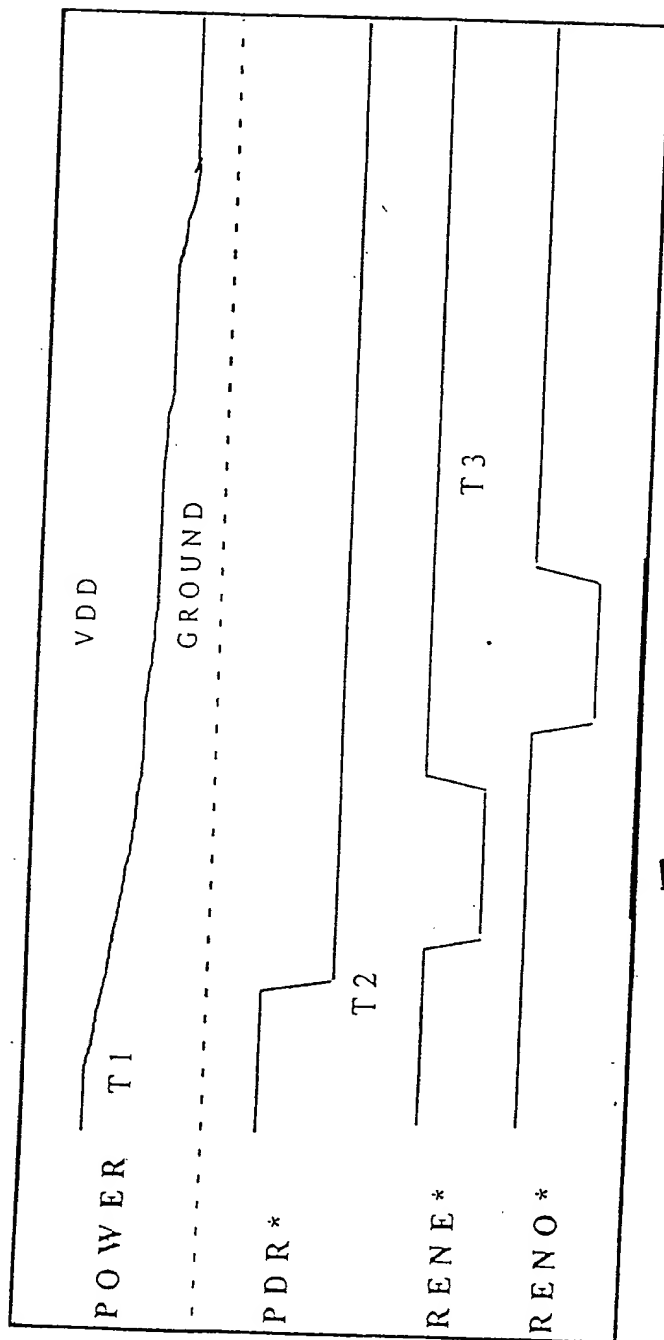


FIGURE 19

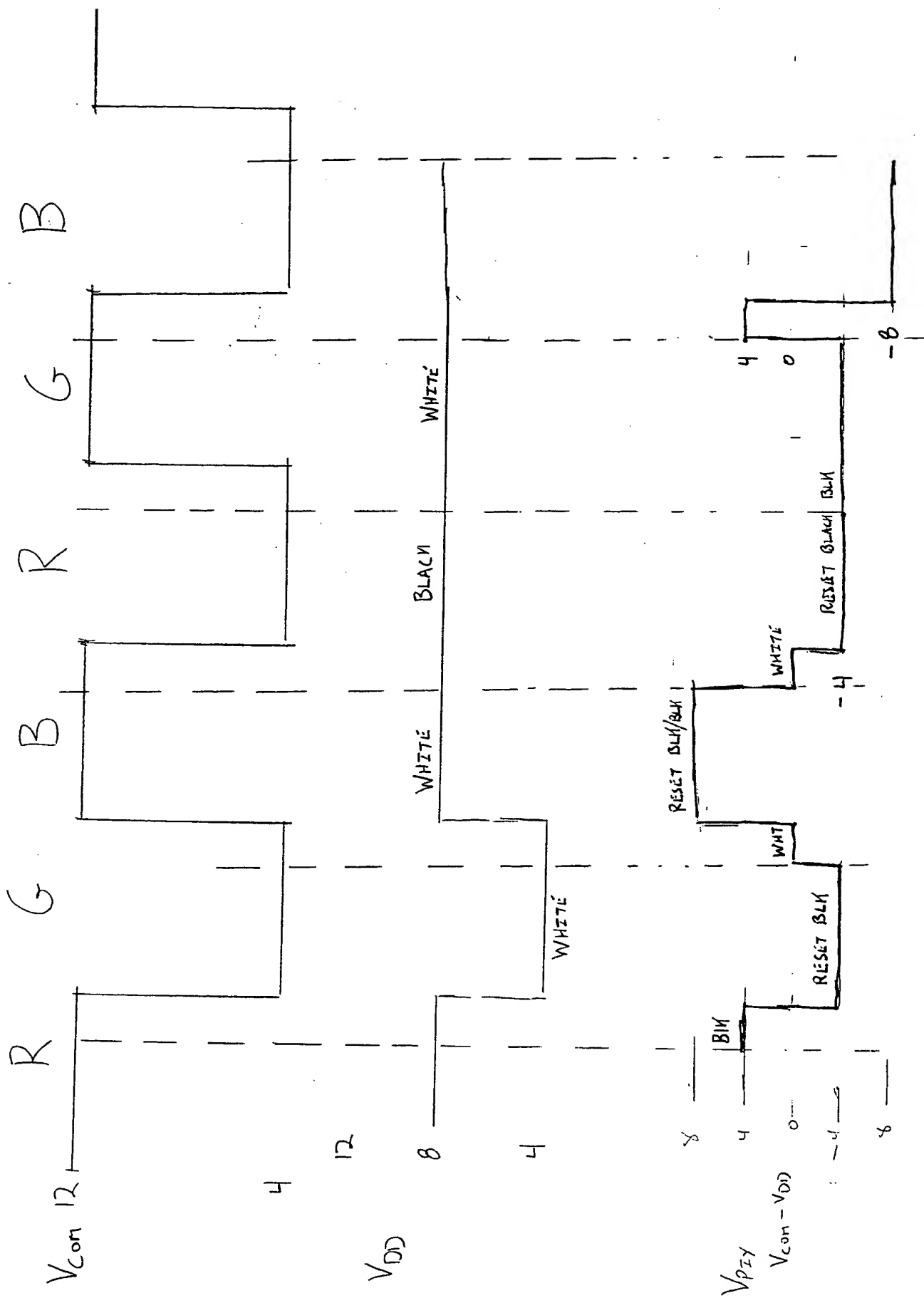


FIGURE 20

864240 T9099060

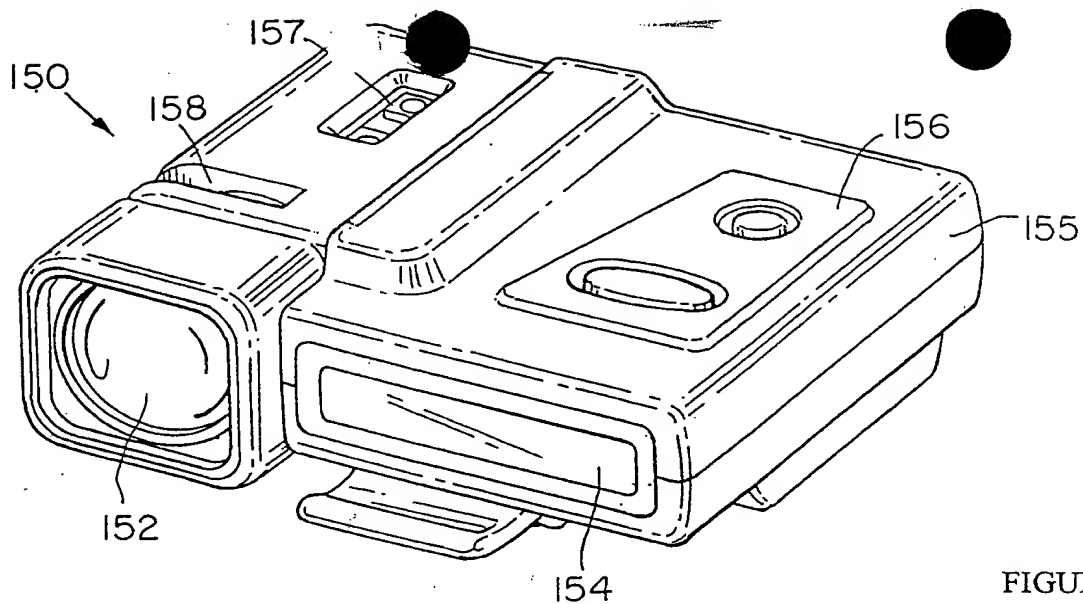


FIGURE 21C

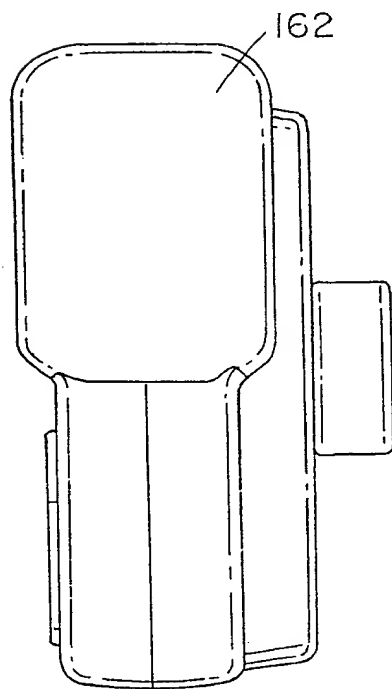
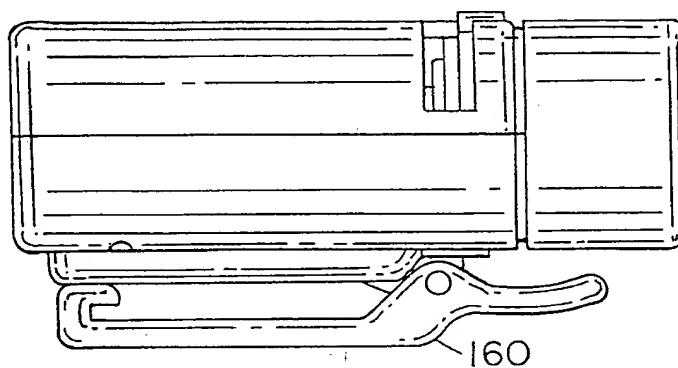


FIGURE 21B

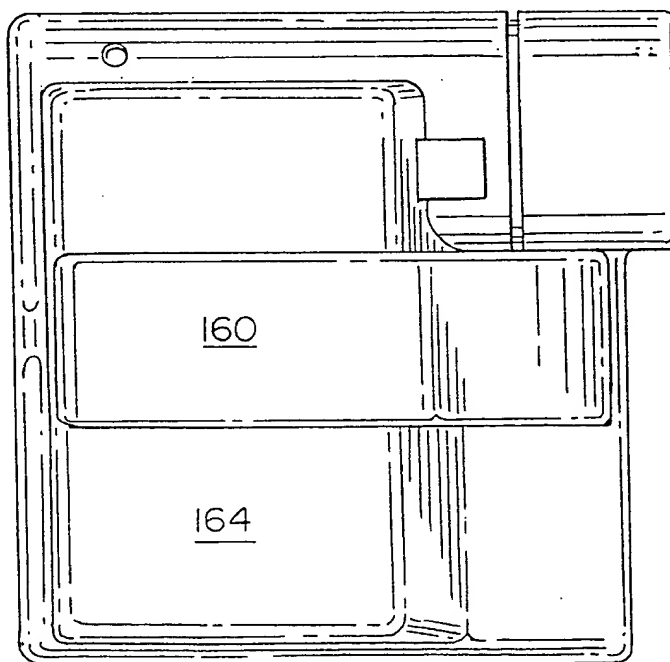


FIGURE 21D

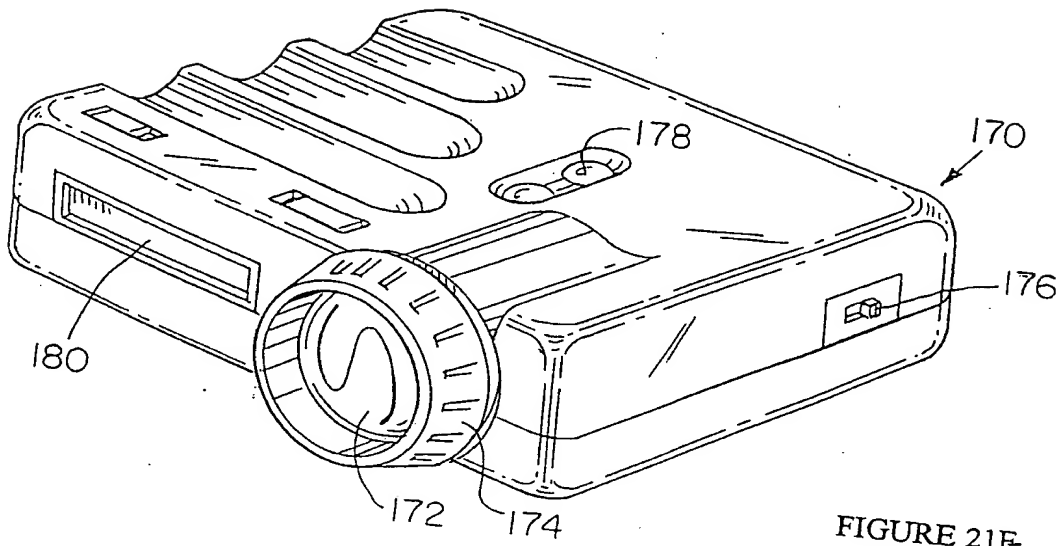


FIGURE 21E

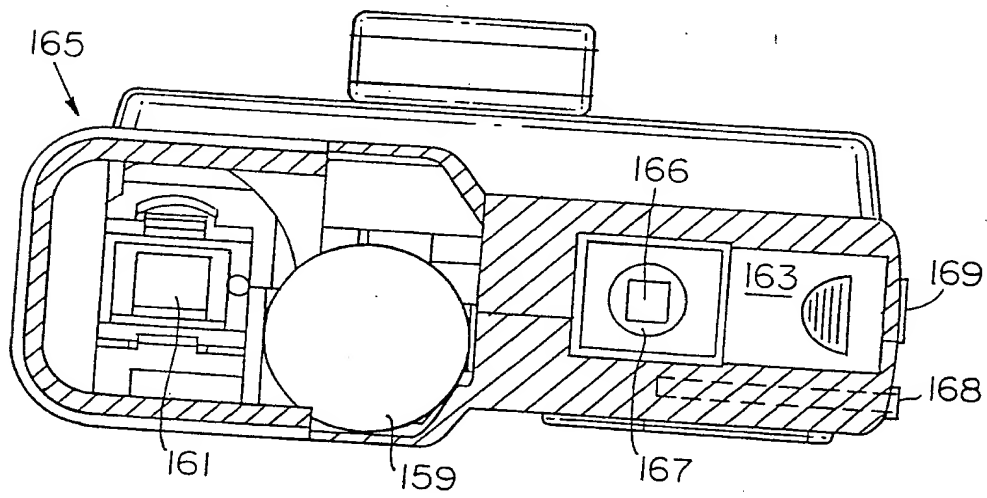


FIGURE 22

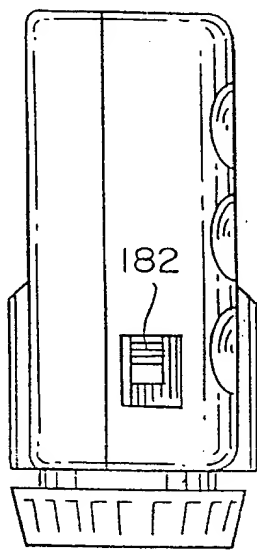


FIGURE 21G

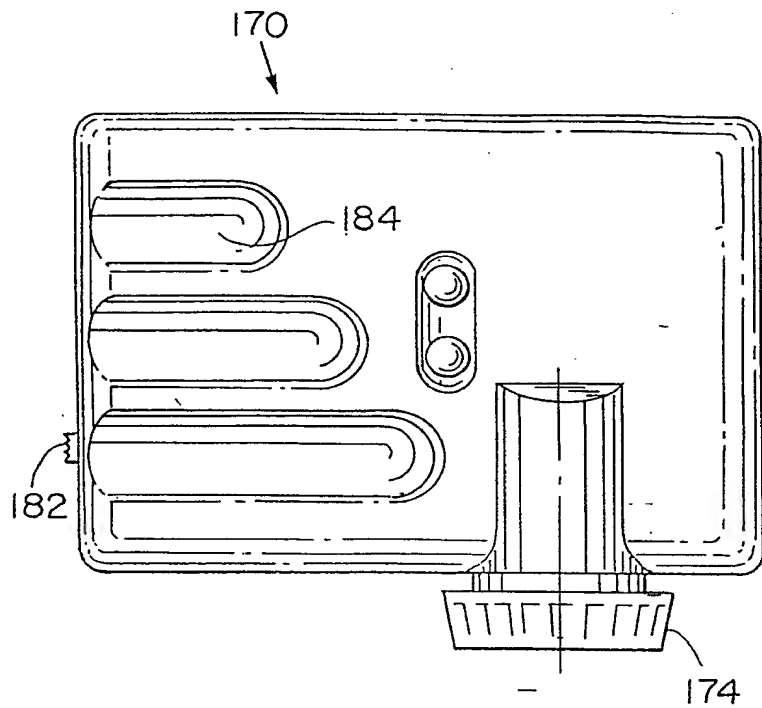


FIGURE 21F

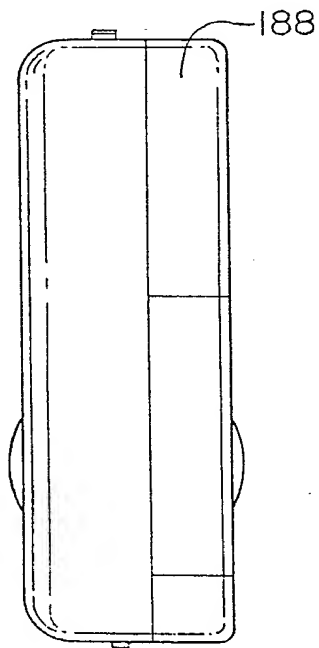


FIGURE 21H

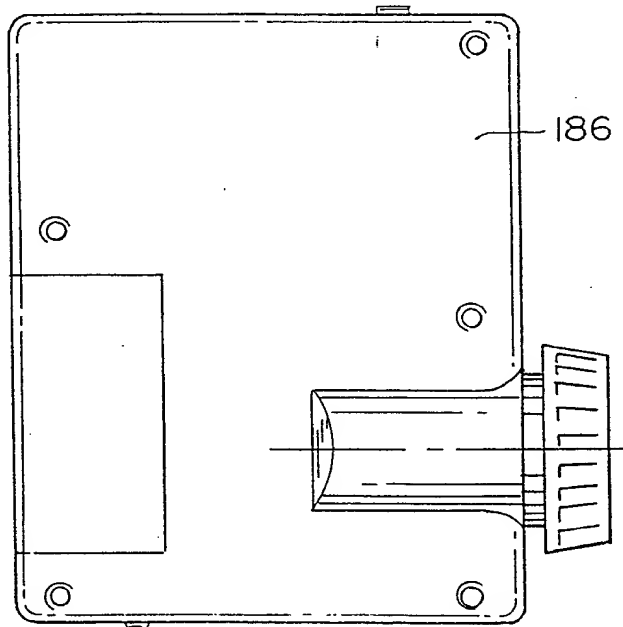


FIGURE 21I

09066061.04490

FIGURE 21J

190

192

191

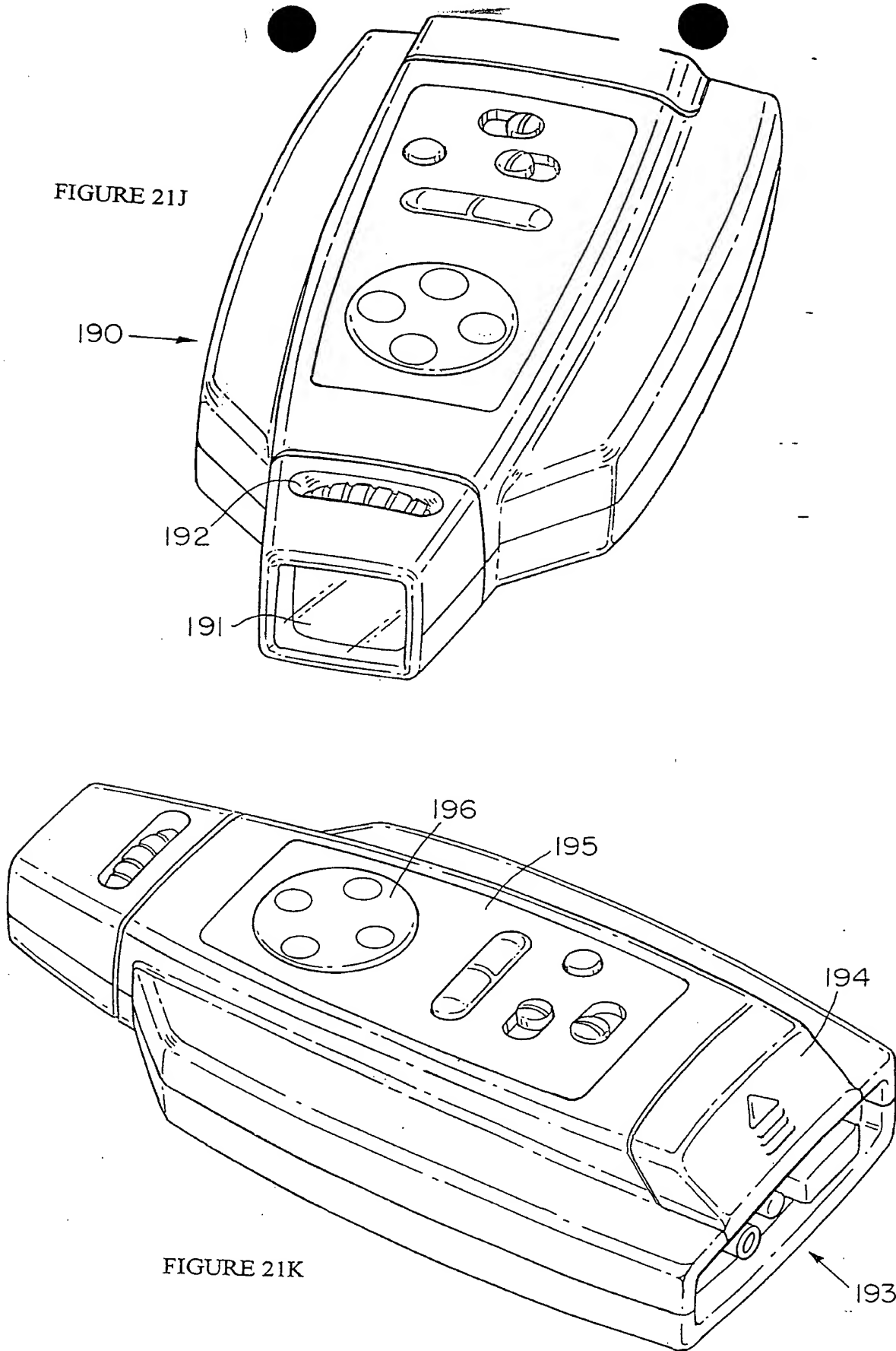
FIGURE 21K

196

195

194

193



09066061.04498
264240" T9099060

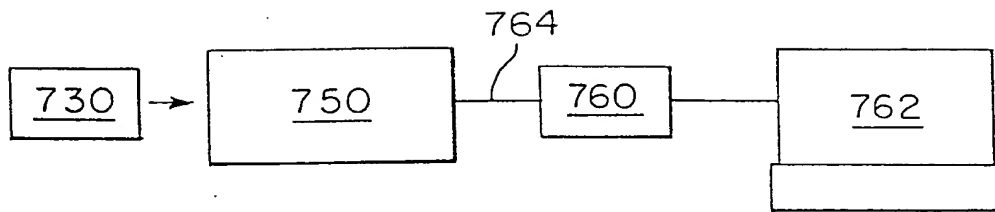


FIGURE 23A

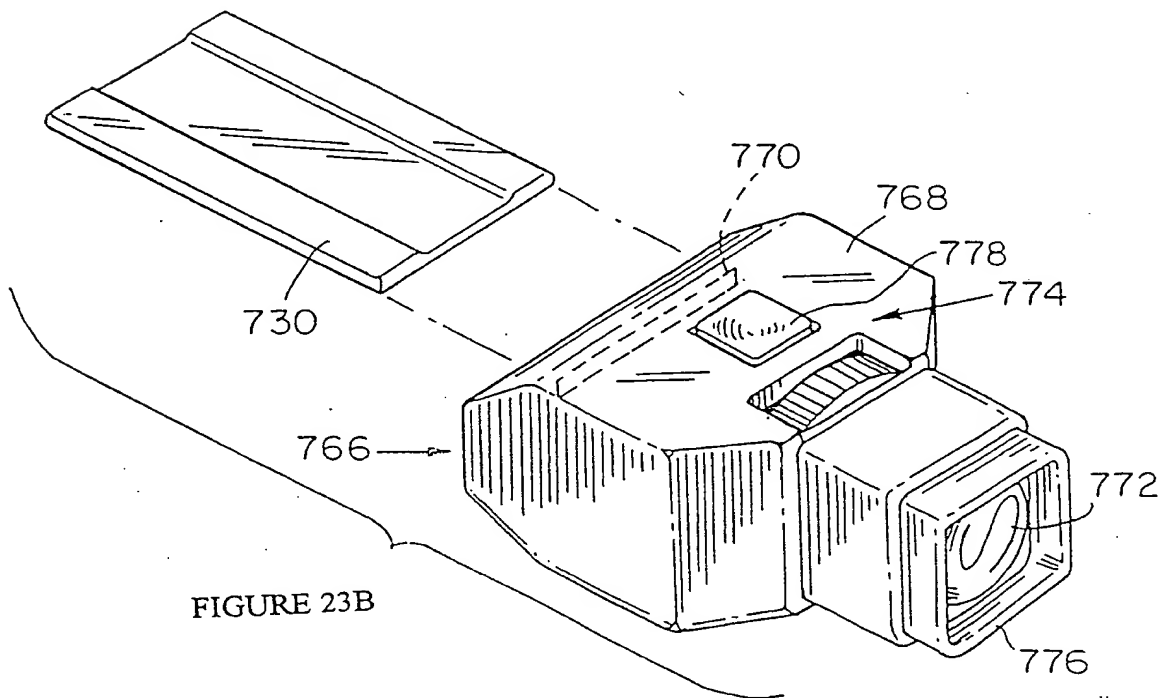
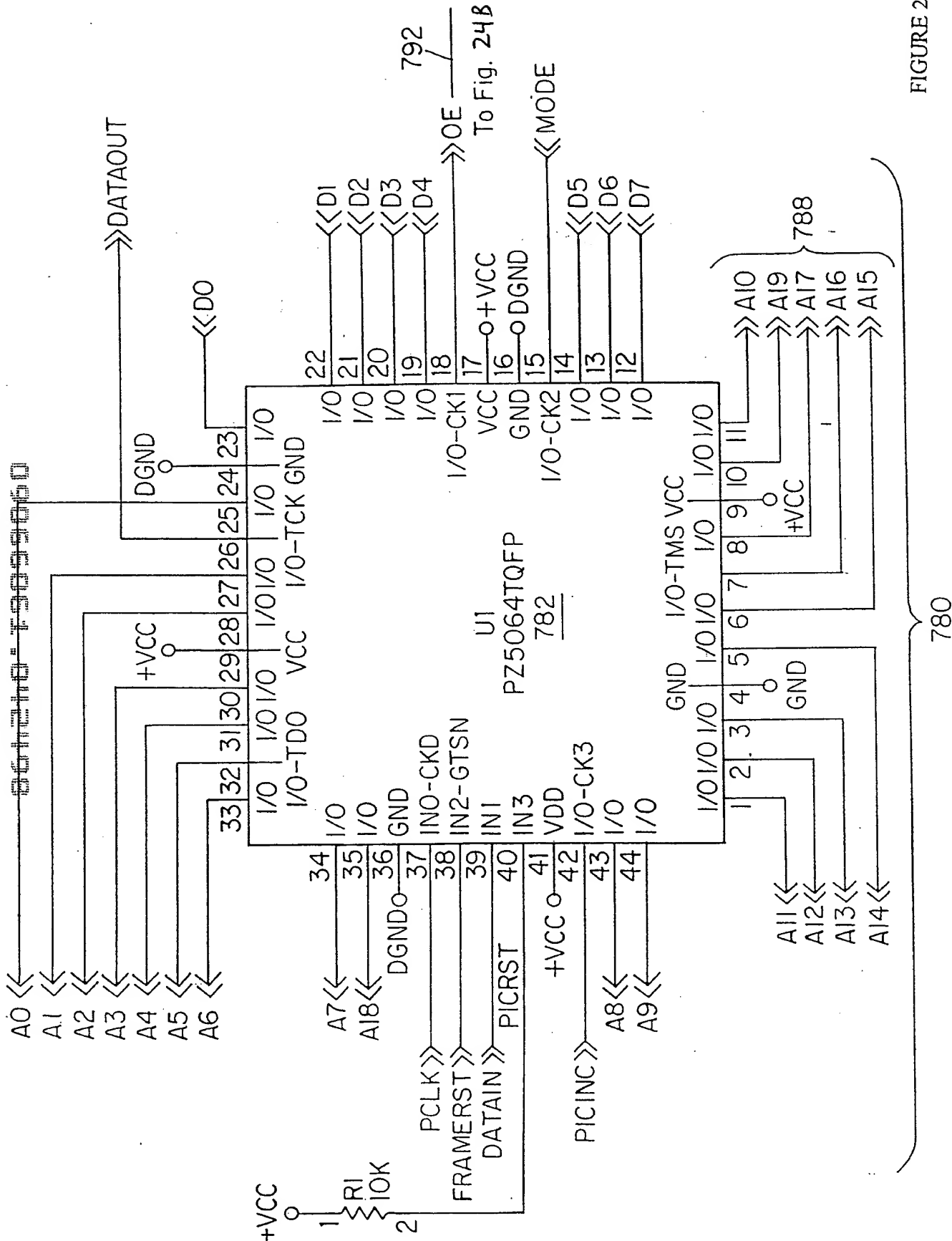
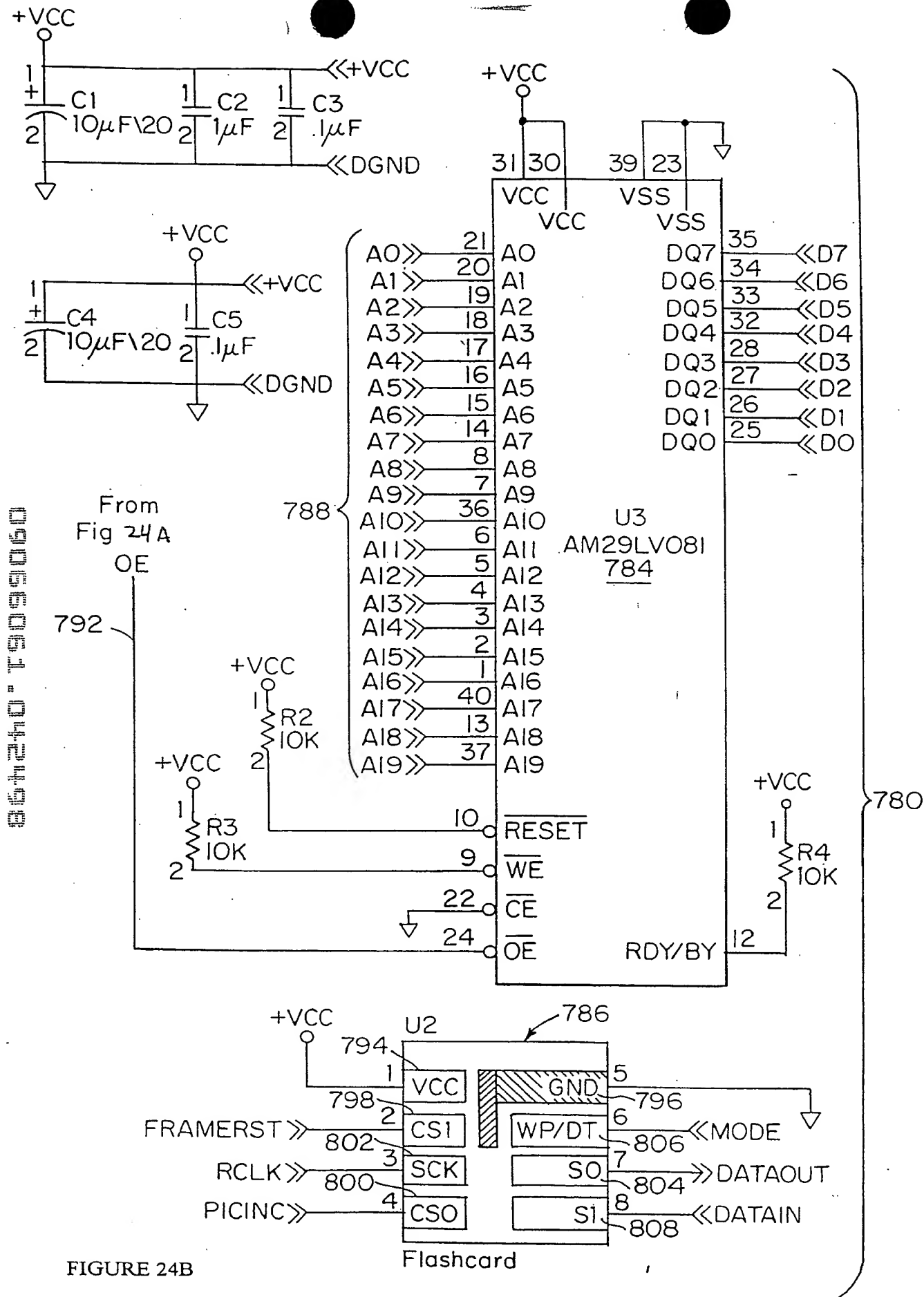


FIGURE 23B





864240-T9093060

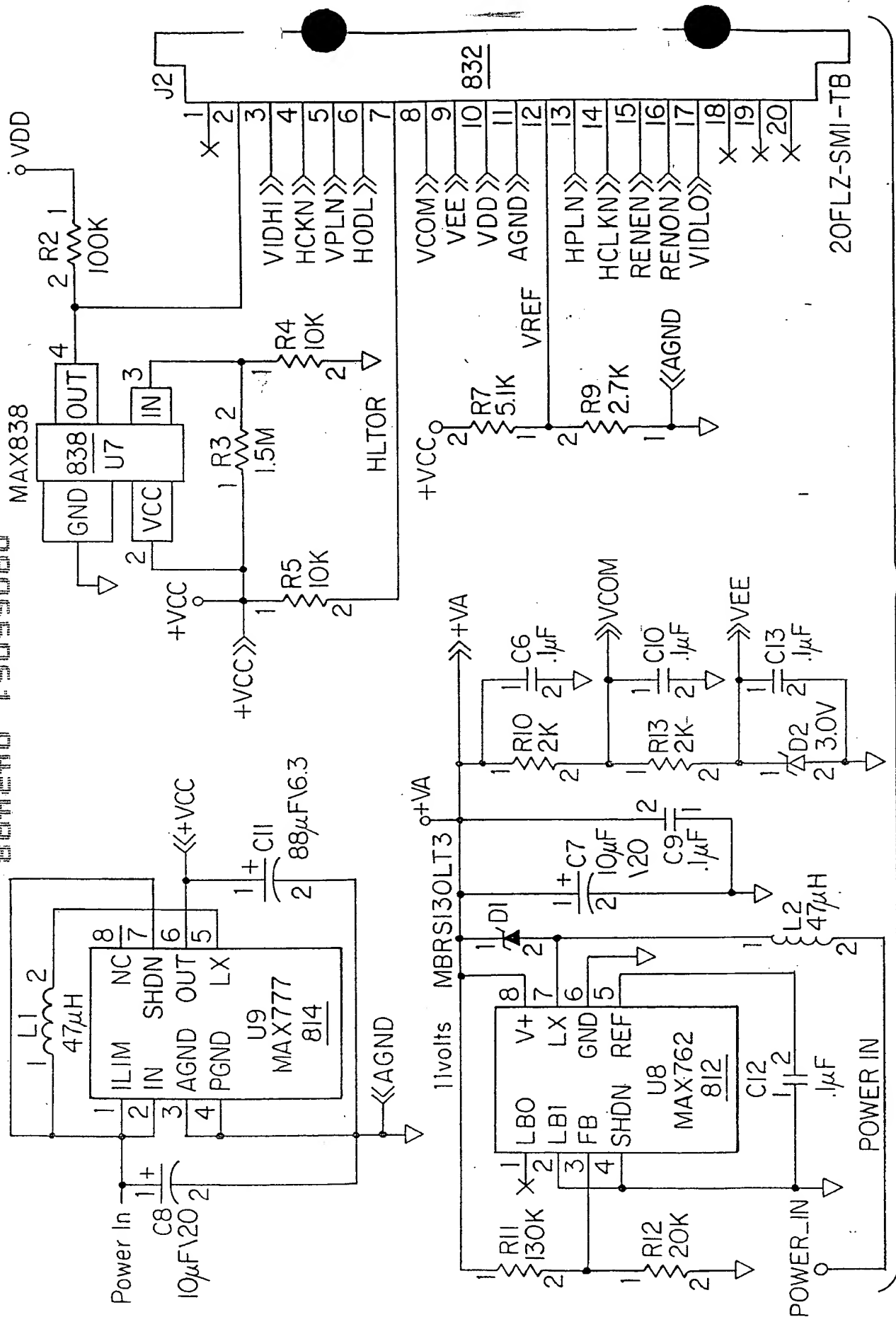


FIGURE 25A

864240-19099060

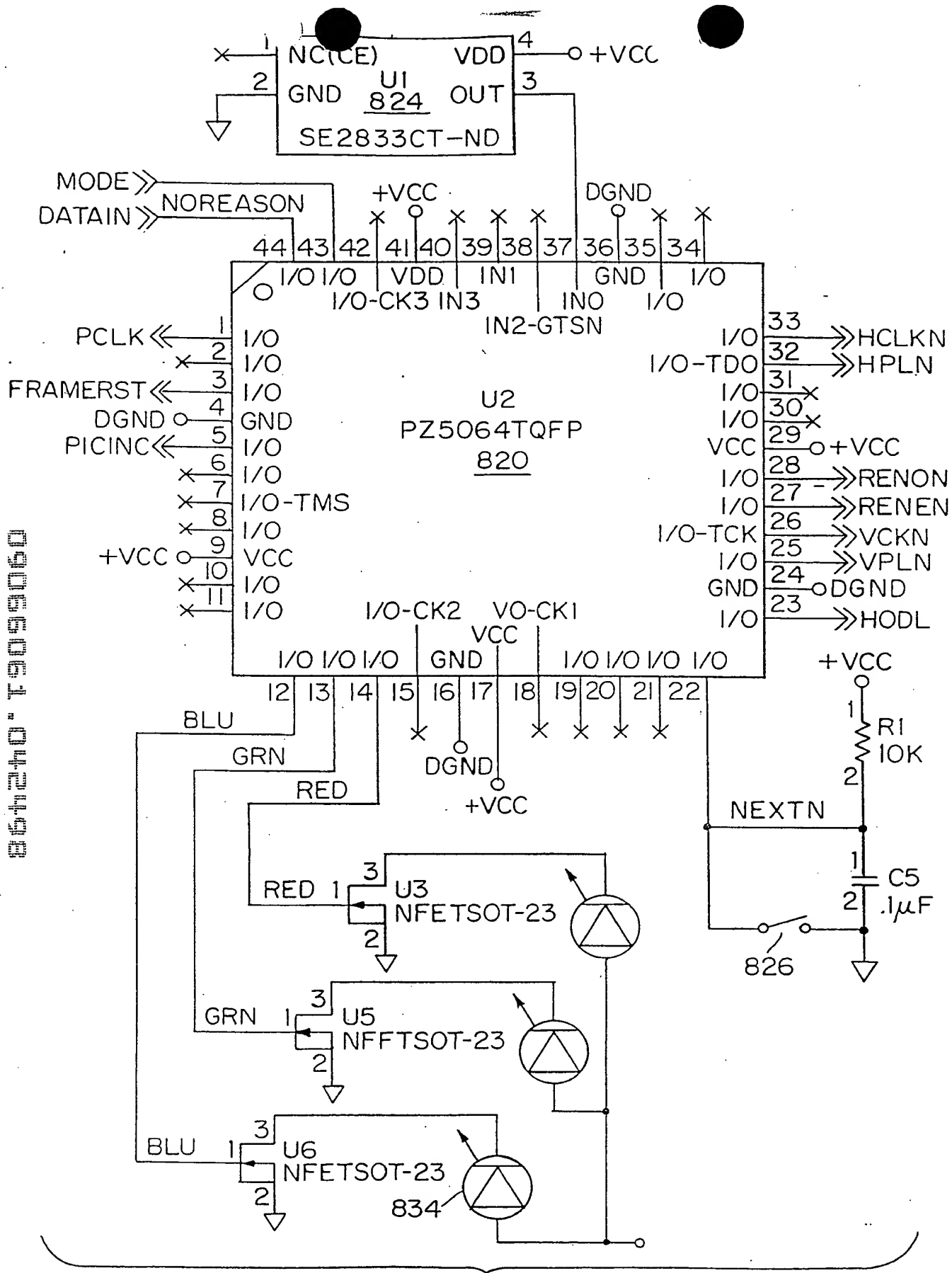


FIGURE 25B

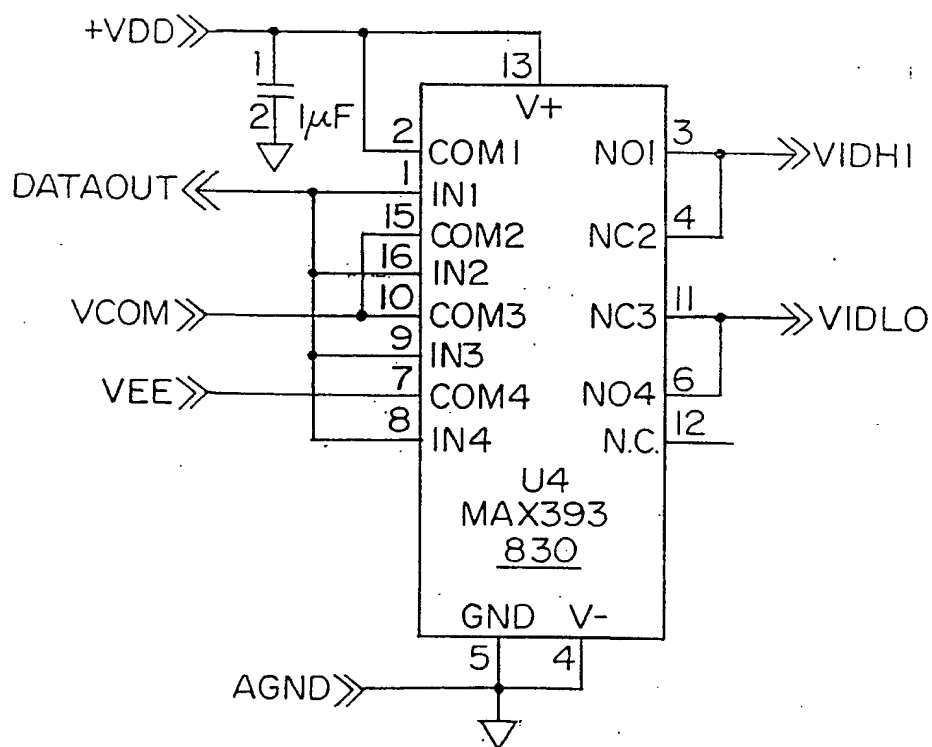
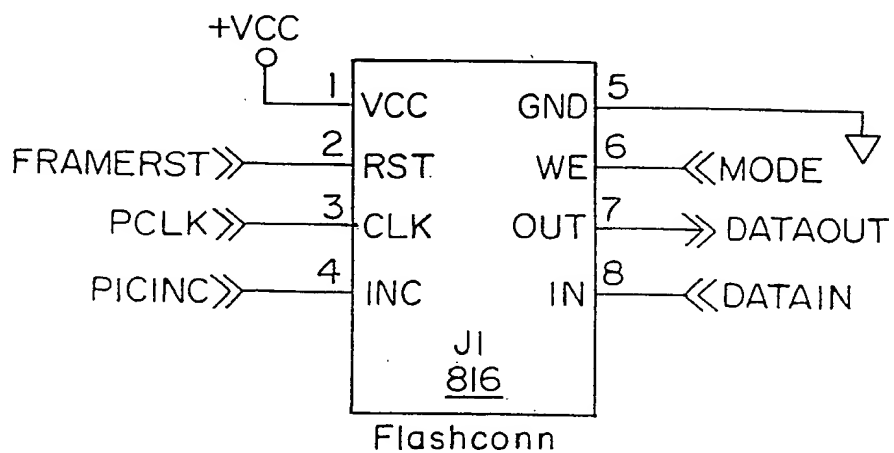
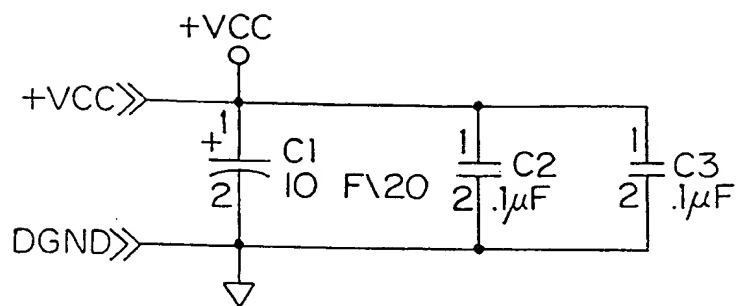


FIGURE 25C

09065061-04499

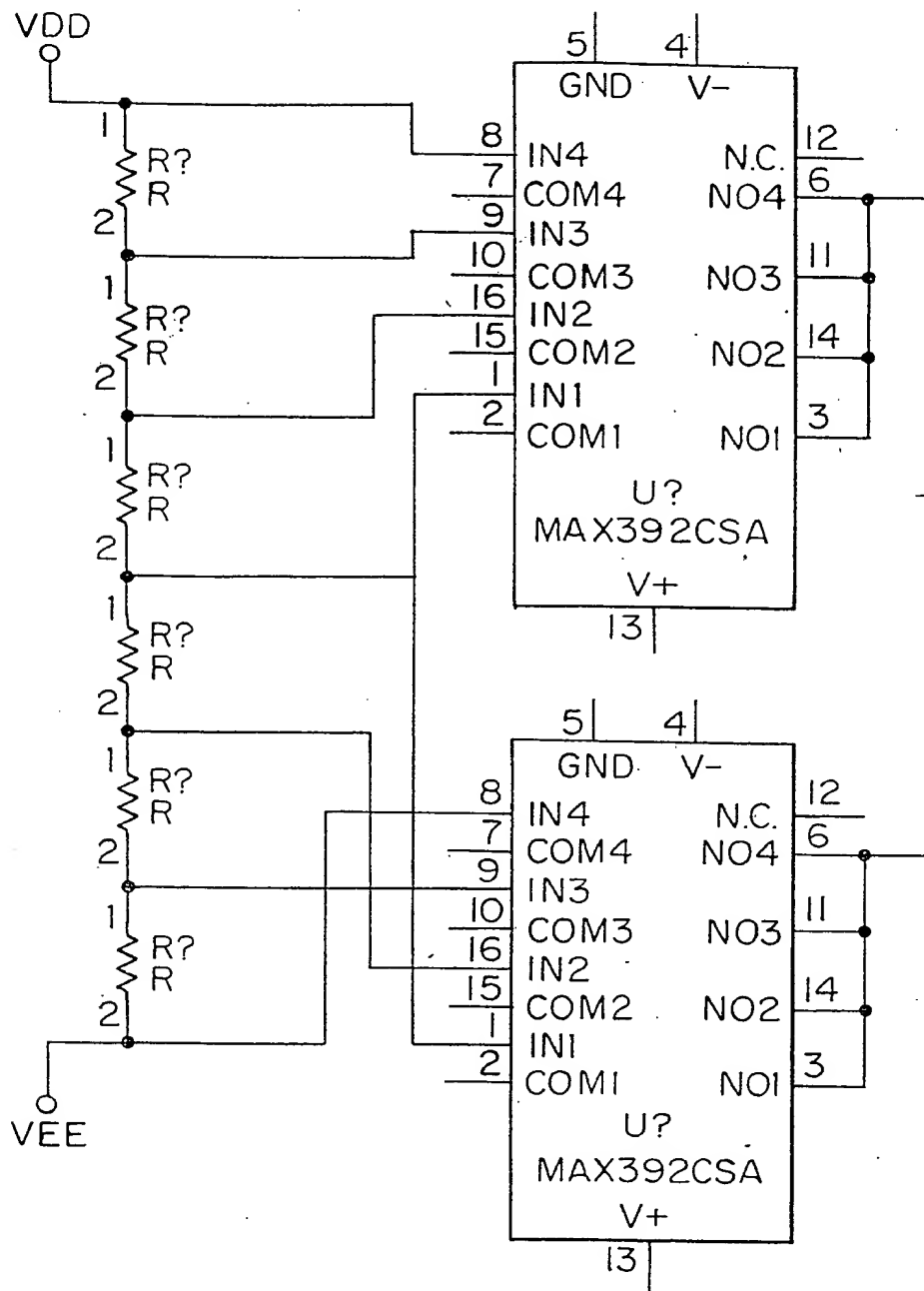
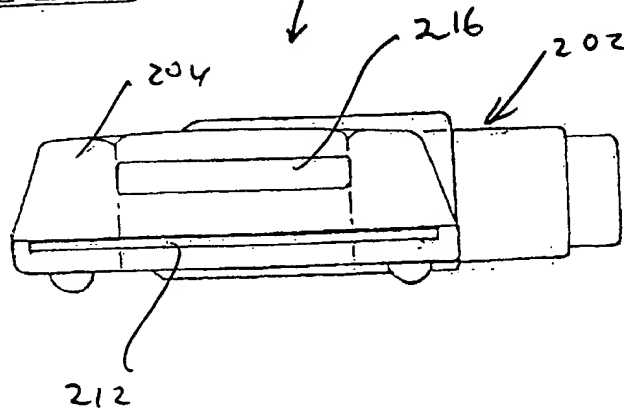
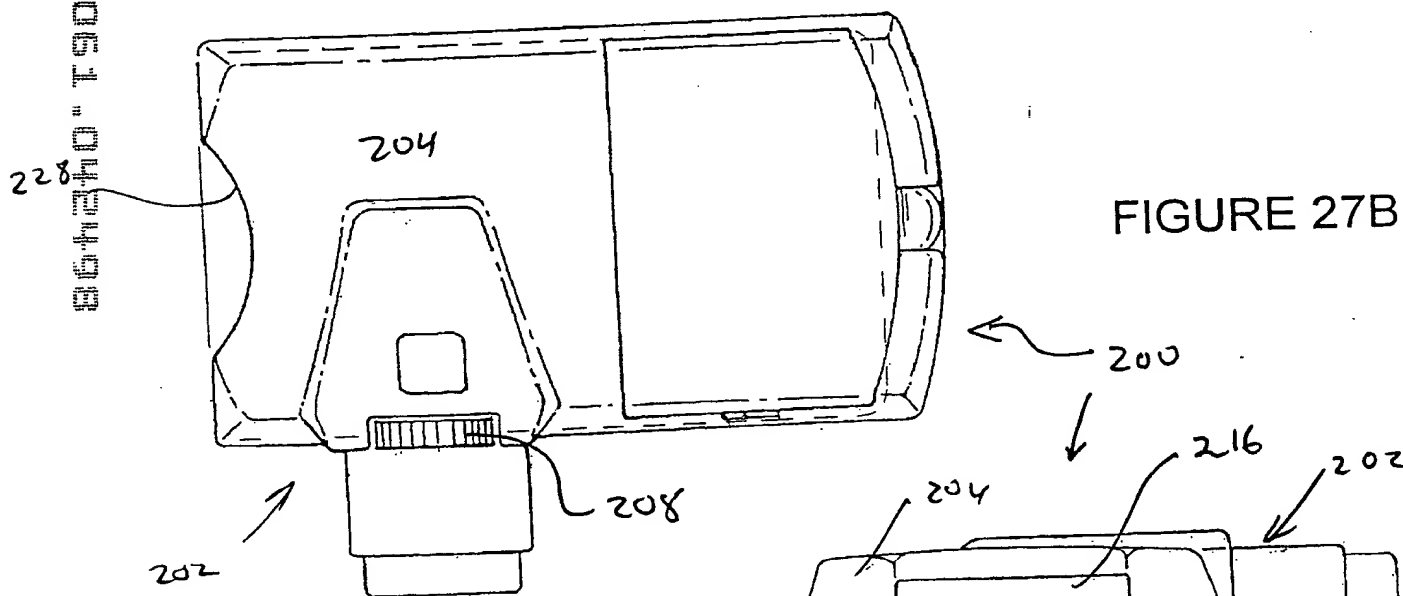
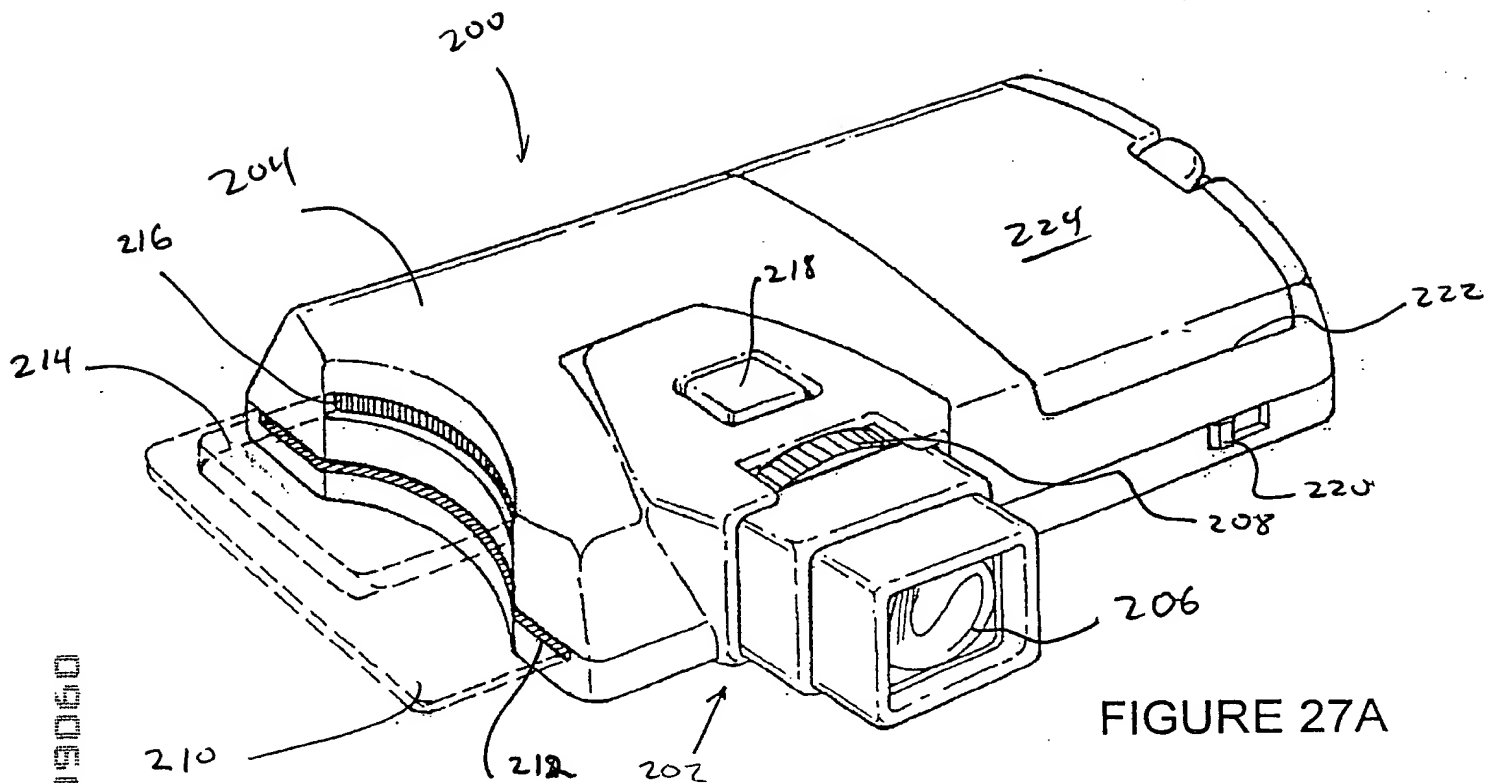


FIGURE 26



09066051-042498

09065061.042498

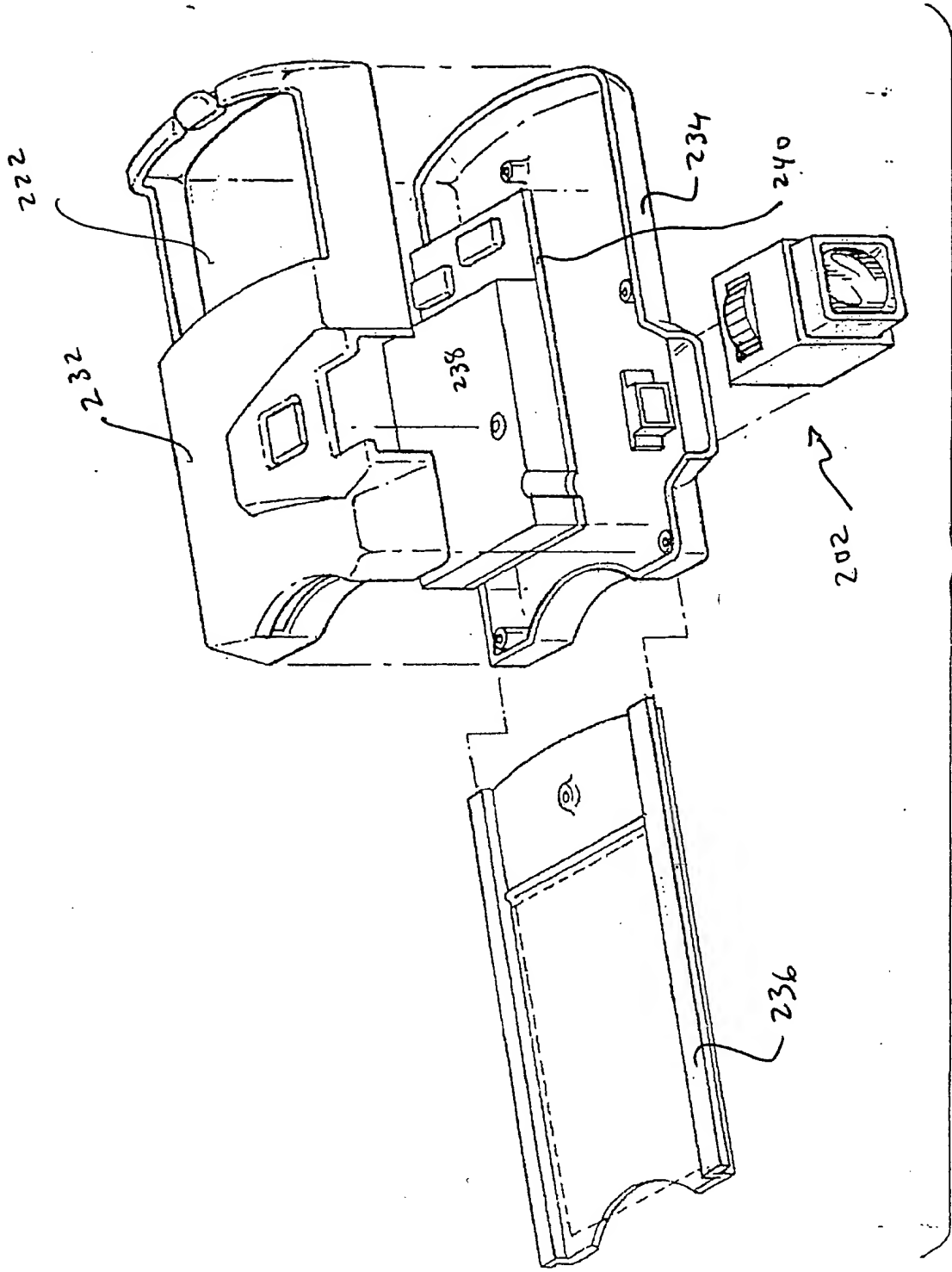
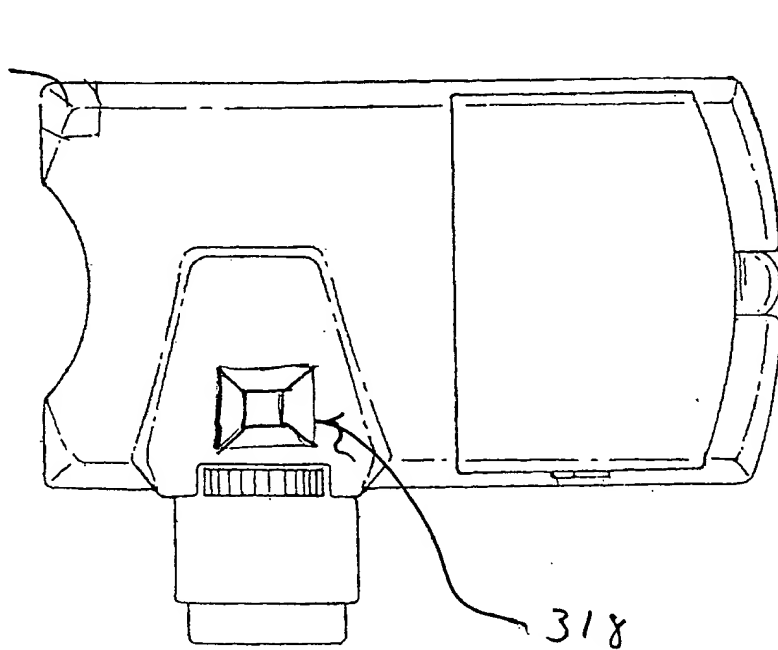
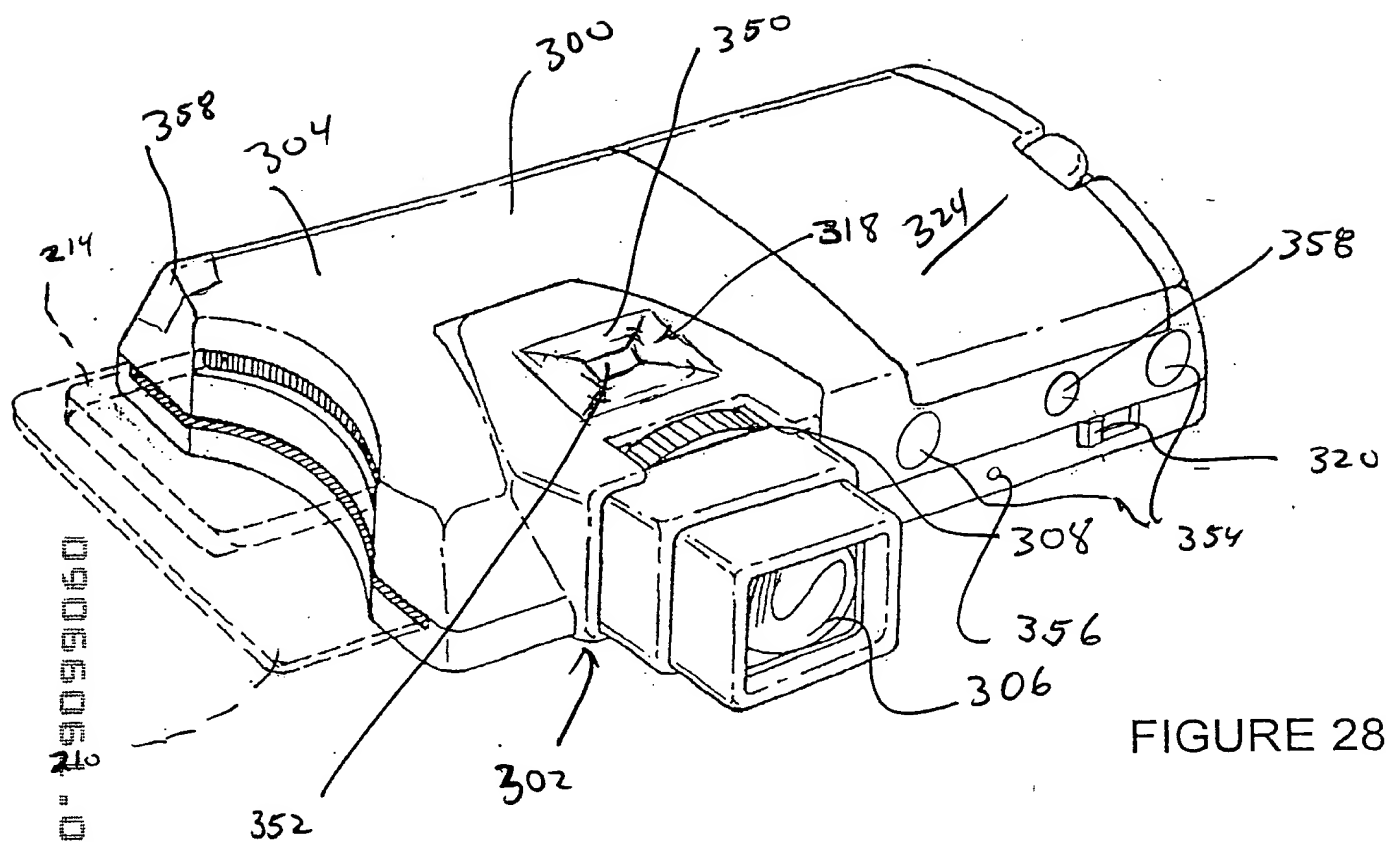


FIGURE 27D



00000000-04440000

A perspective view of the device 300. The device consists of a main body 316 with a front face 358 and a rear face 312. The front face 358 features a central rectangular opening. The rear face 312 has a protruding cylindrical section. The device is shown from a perspective that highlights its three-dimensional structure.

FIGURE 28D

FIGURE 29Aa

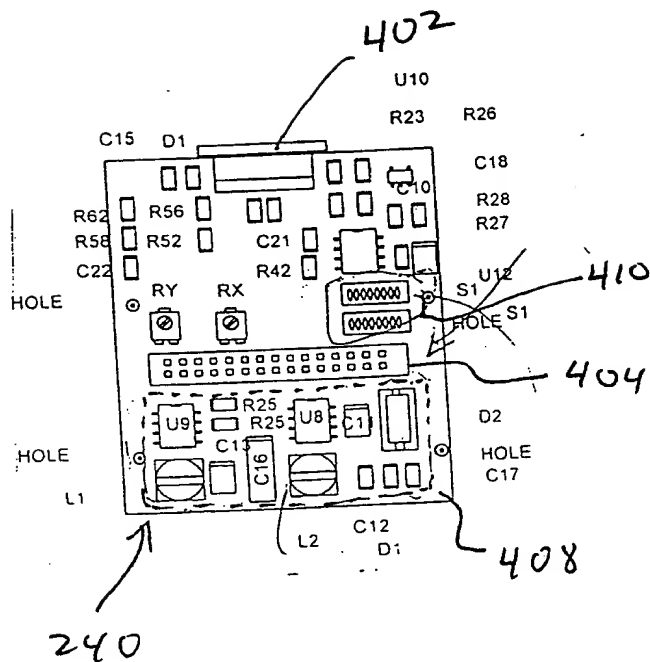


FIGURE 29Ab

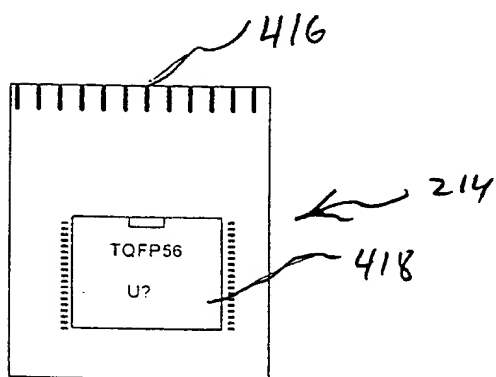
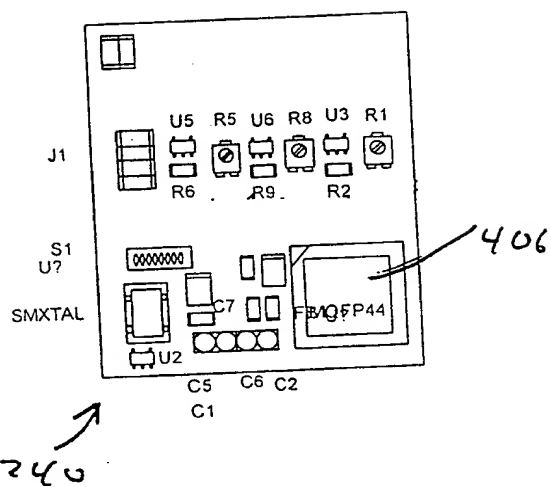


FIGURE 29Ba

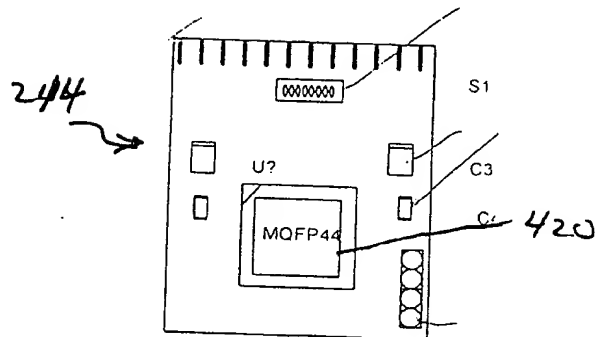


FIGURE 29Bb

09065061 04448

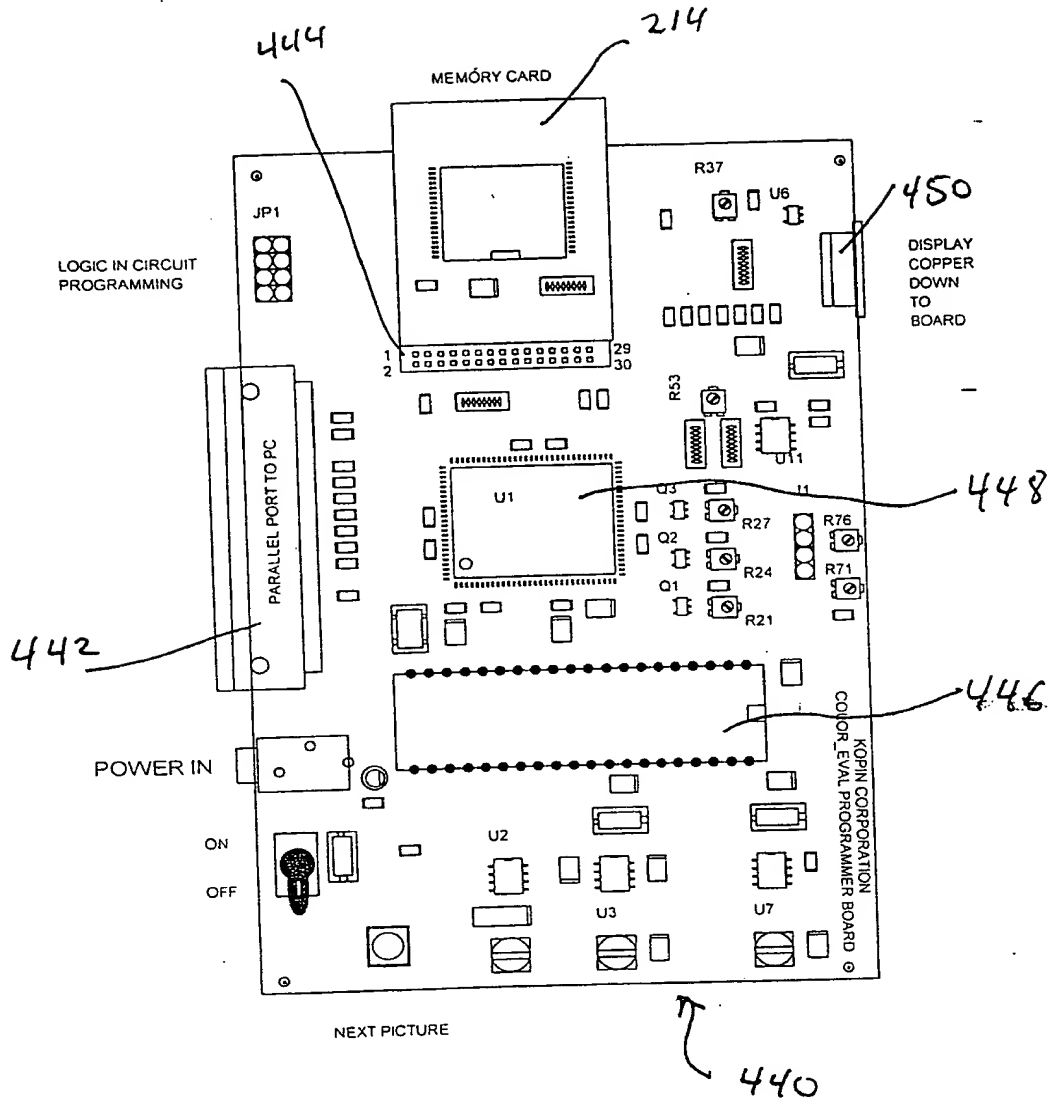


FIGURE 29C

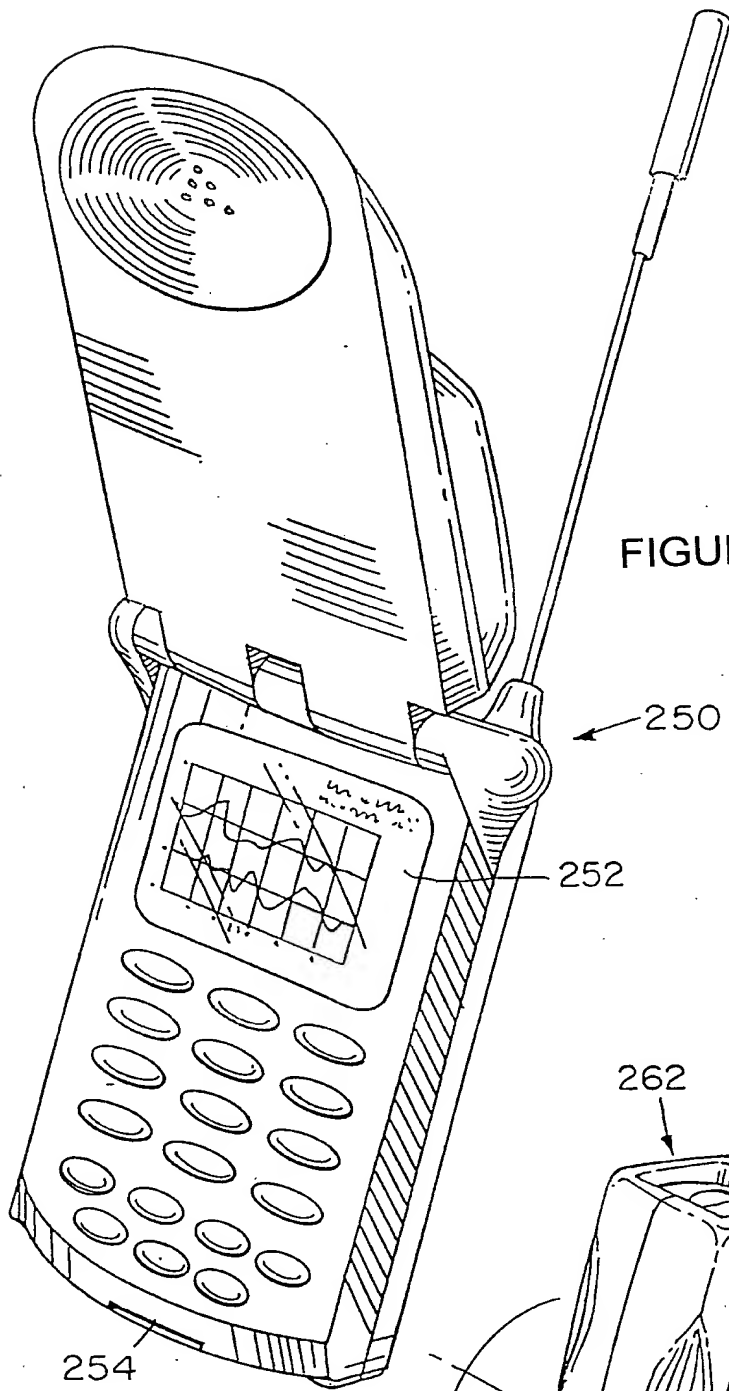


FIGURE 30A

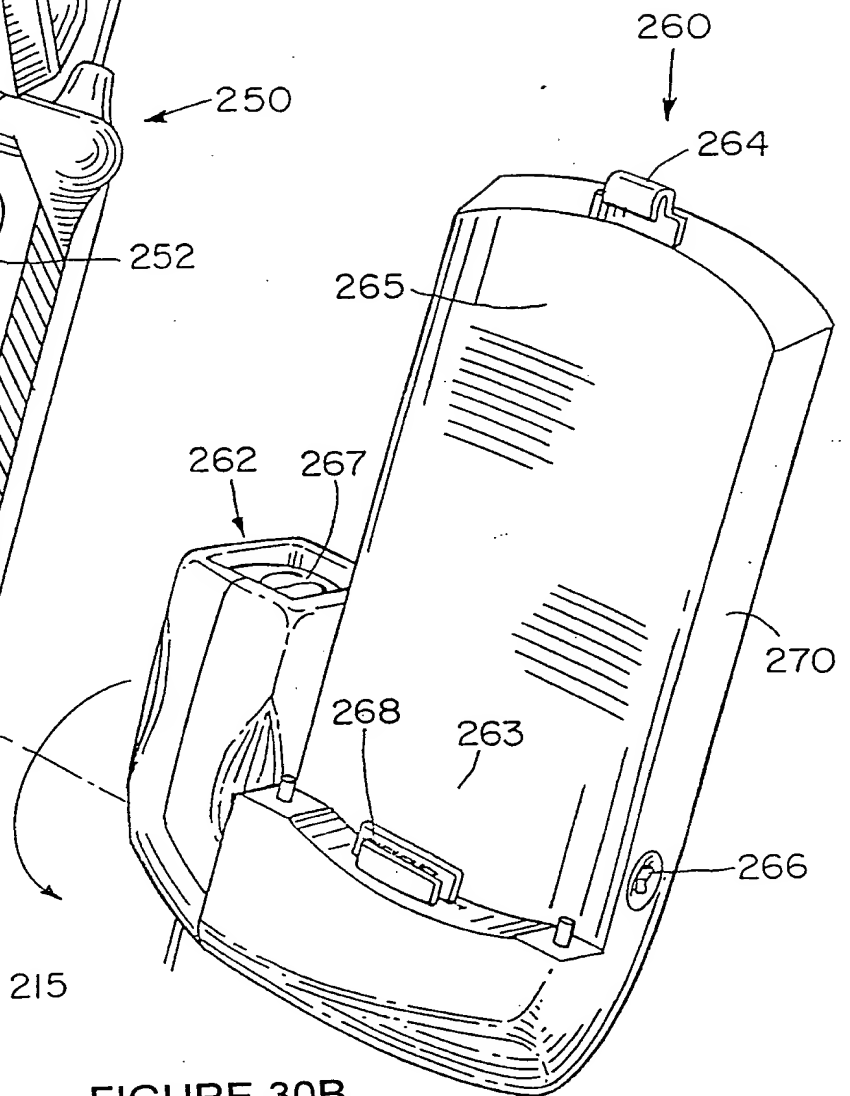


FIGURE 30B

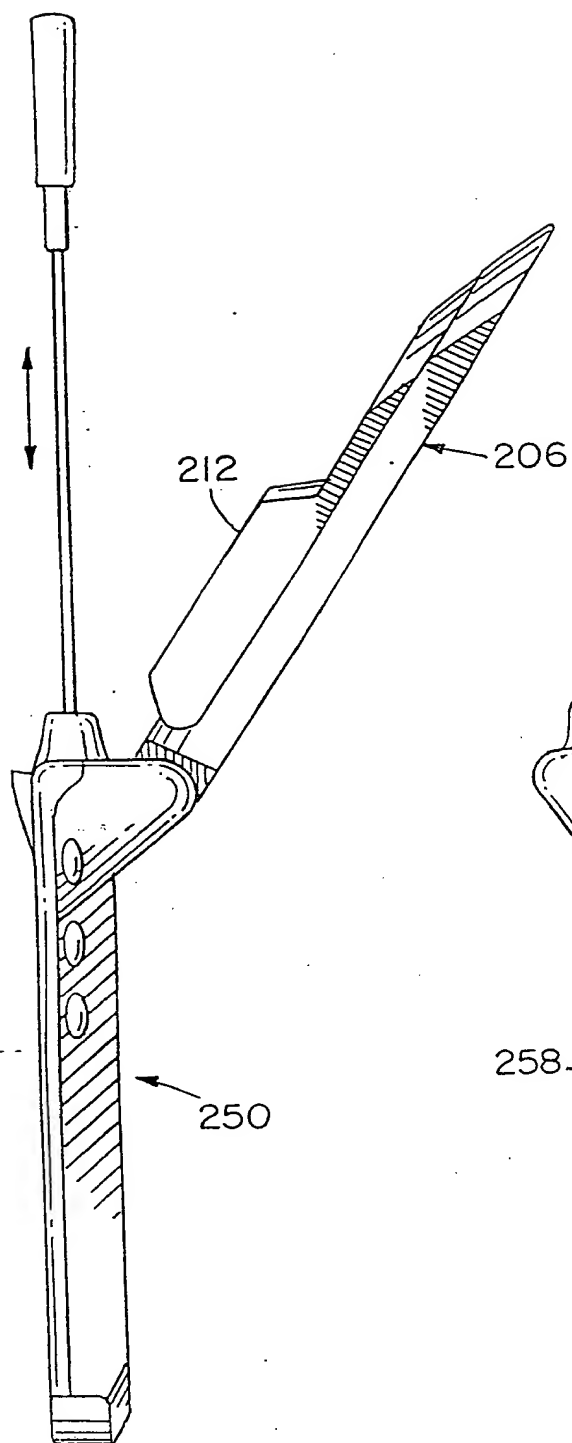


FIGURE 30C

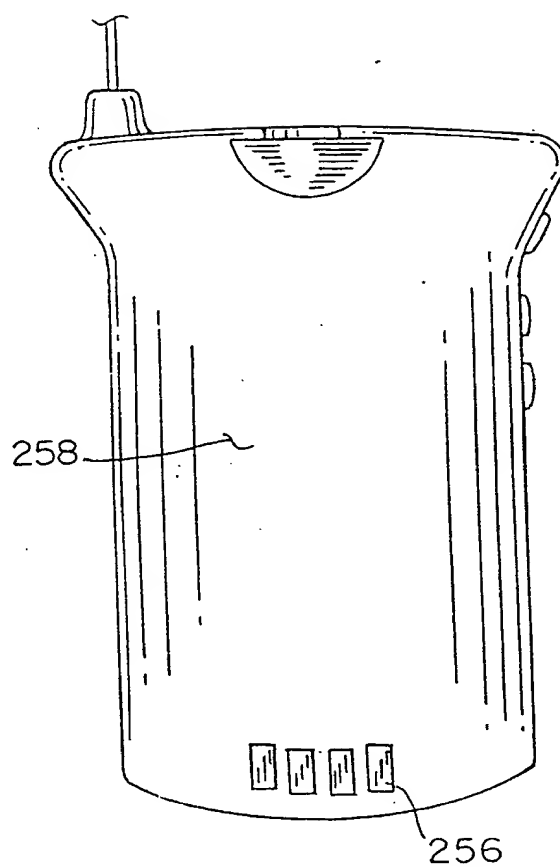


FIGURE 30D



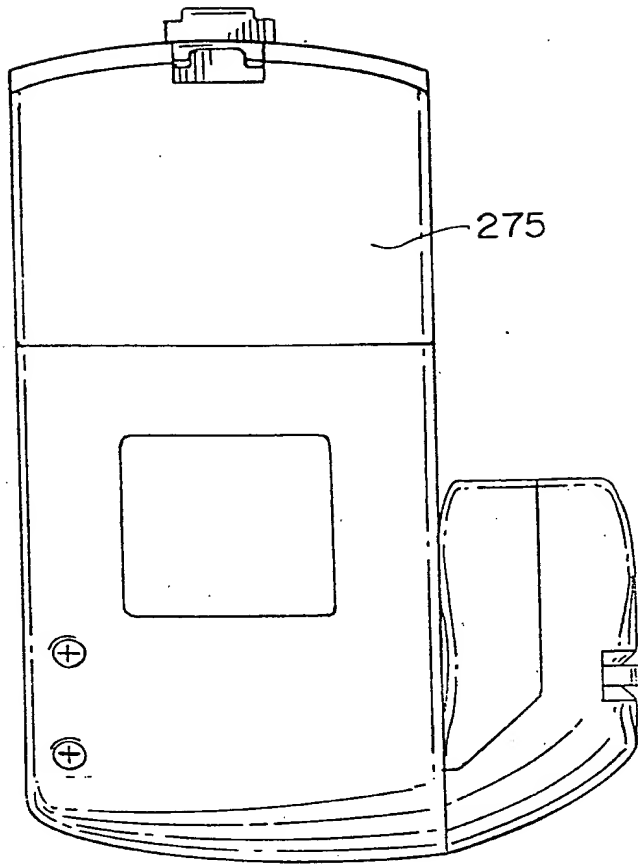


FIGURE 30H

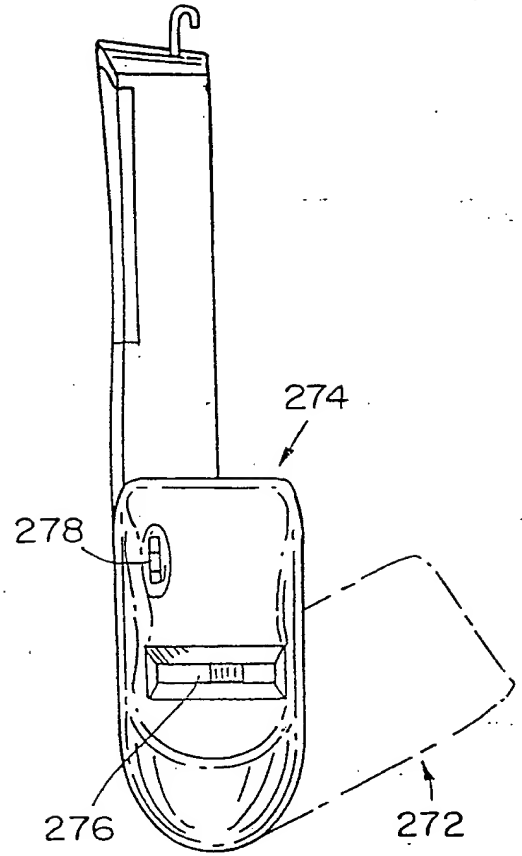


FIGURE 30I

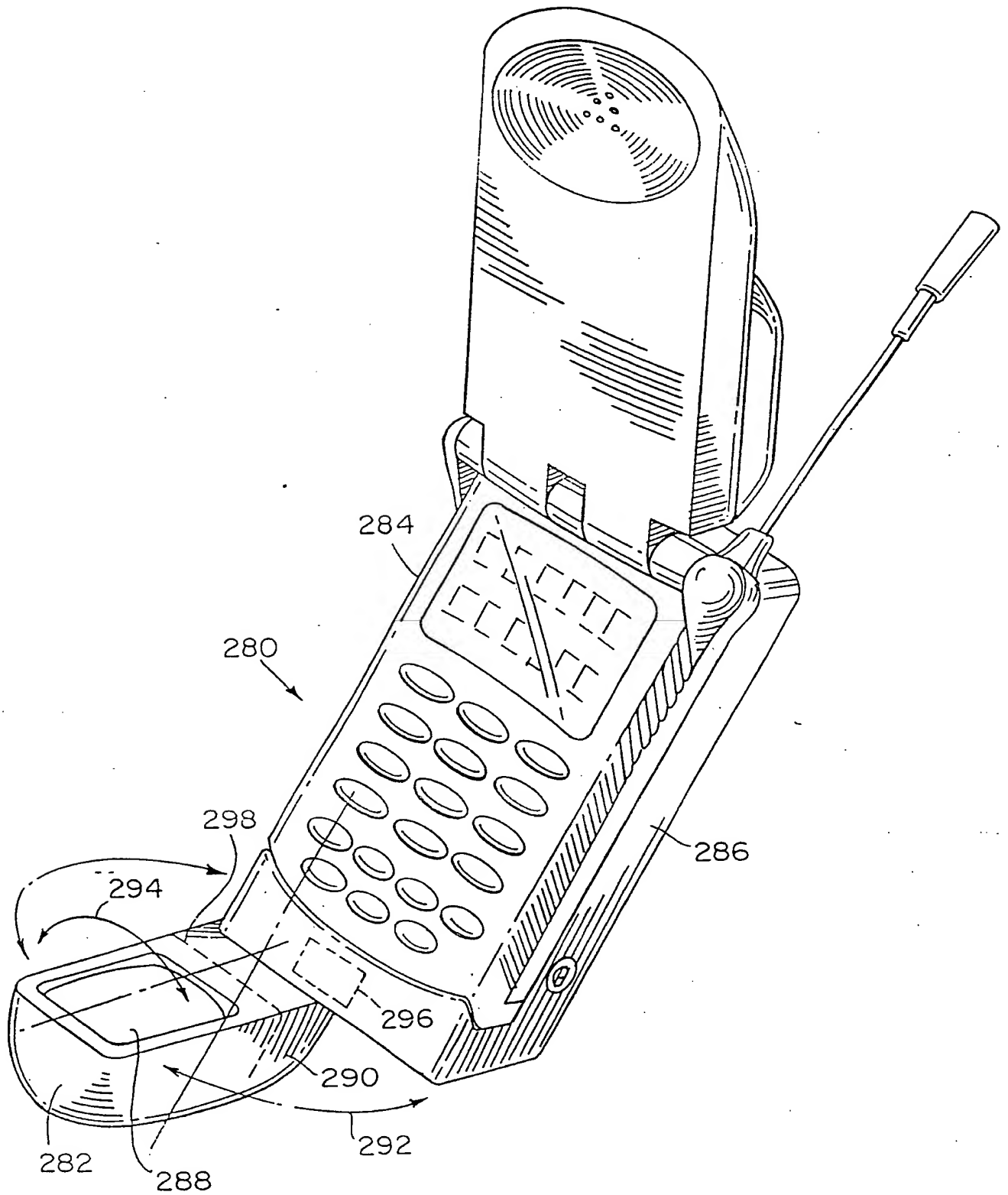


FIGURE 30J

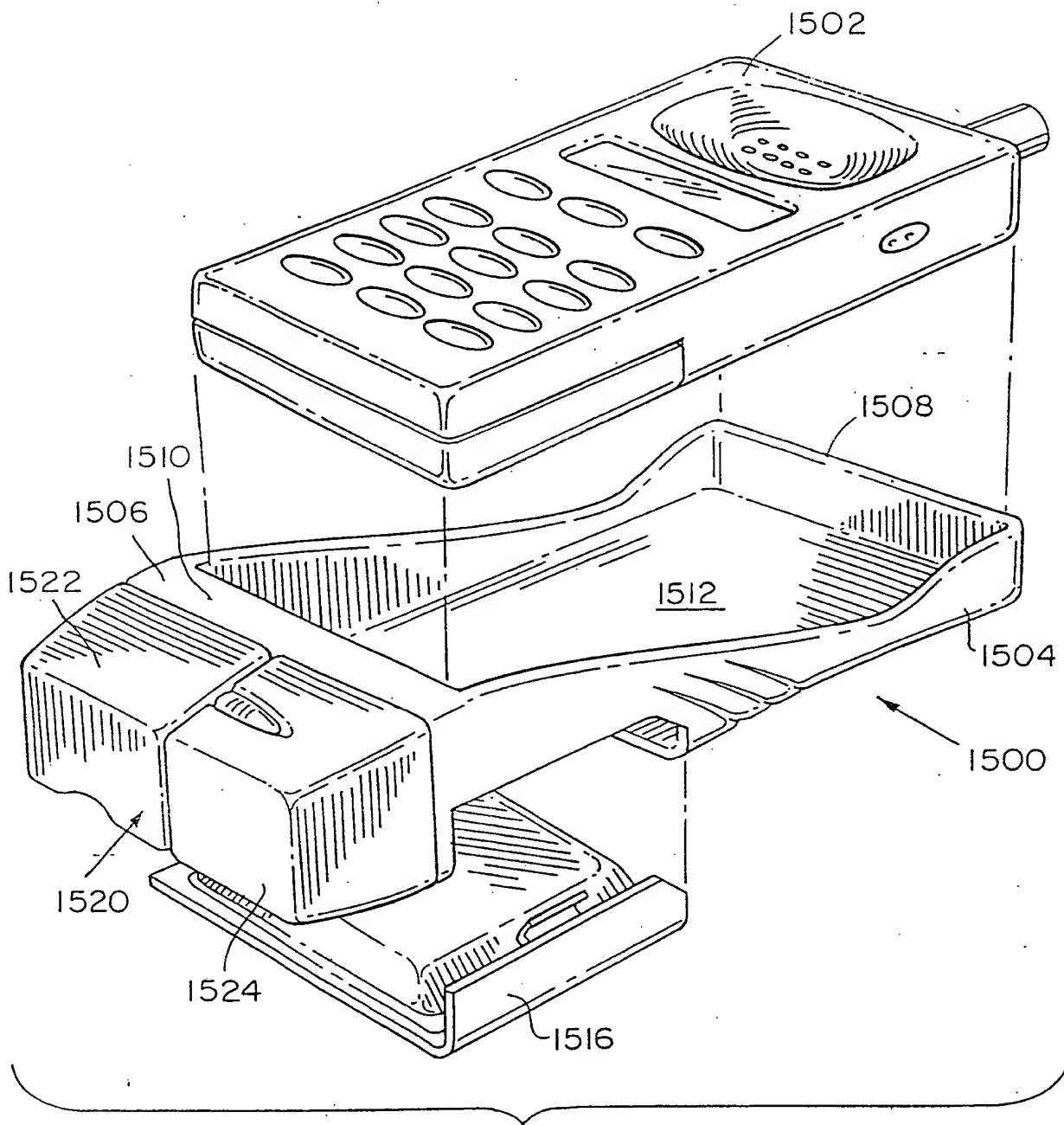


FIGURE 31A

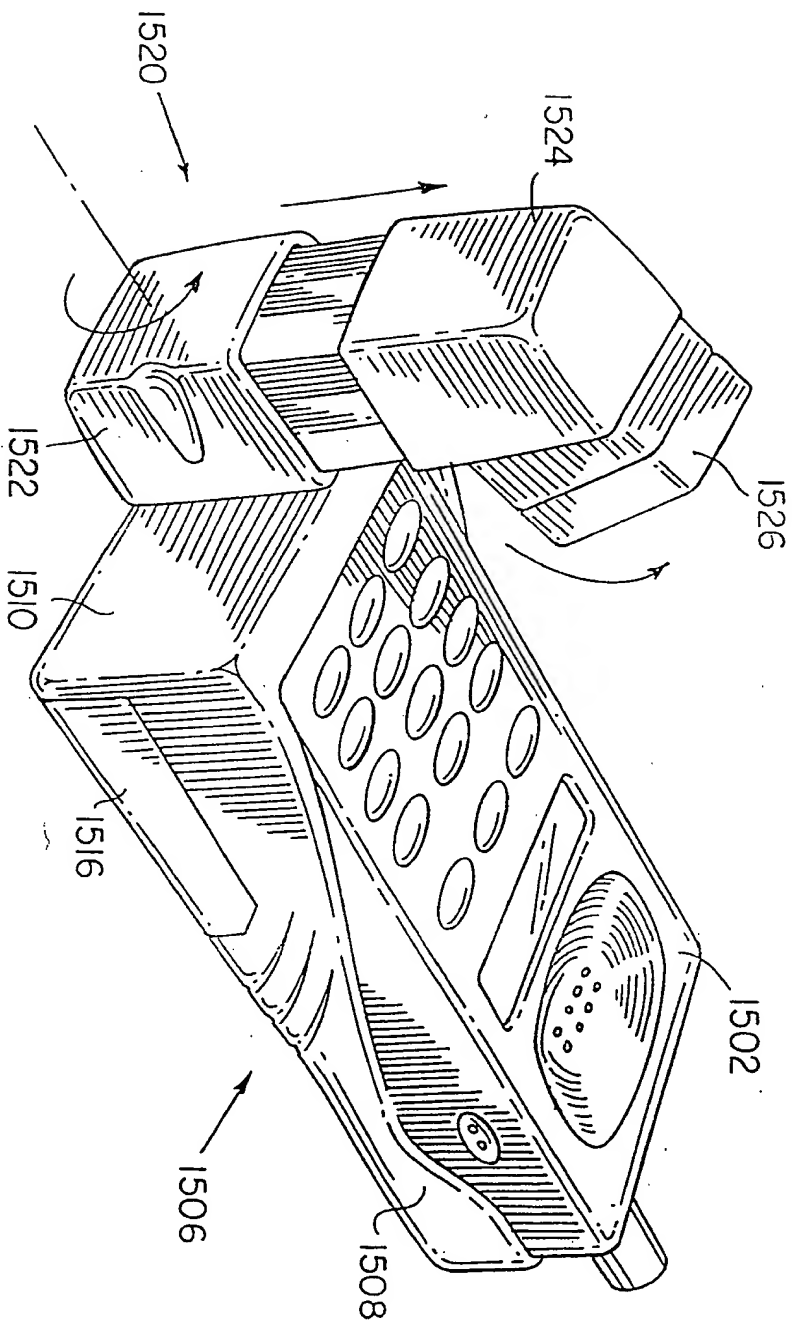


FIGURE 31B

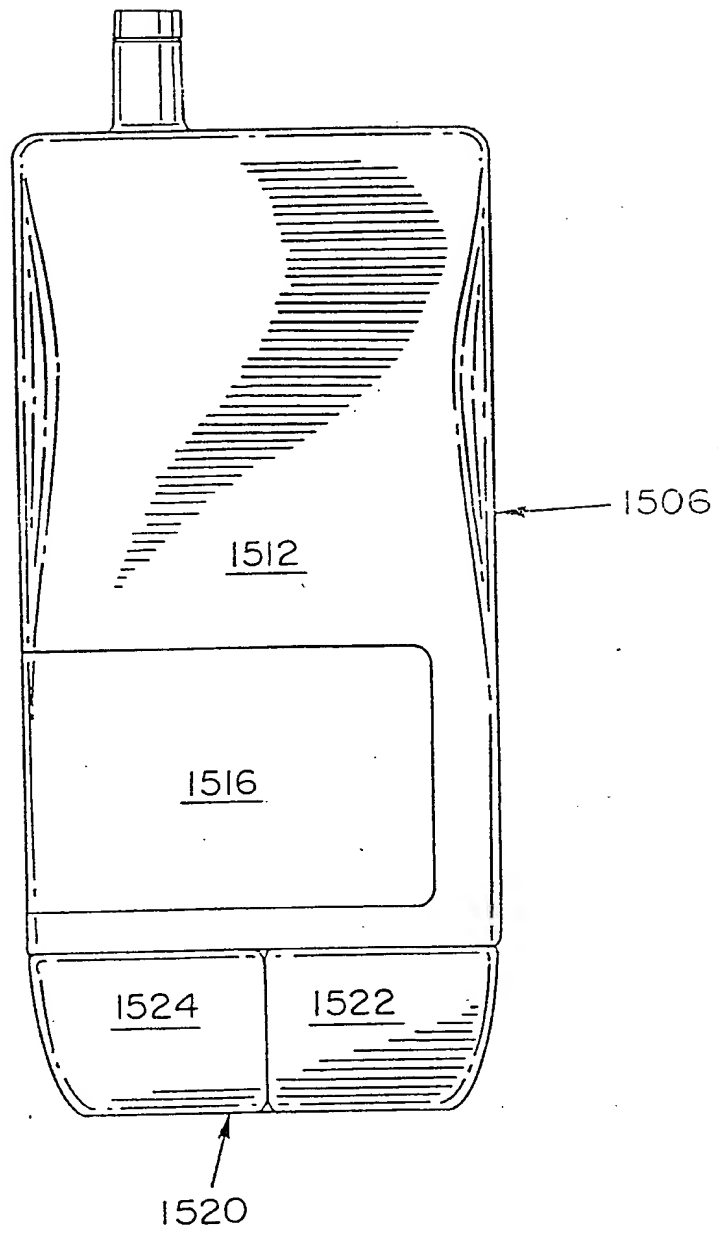


FIGURE 31C

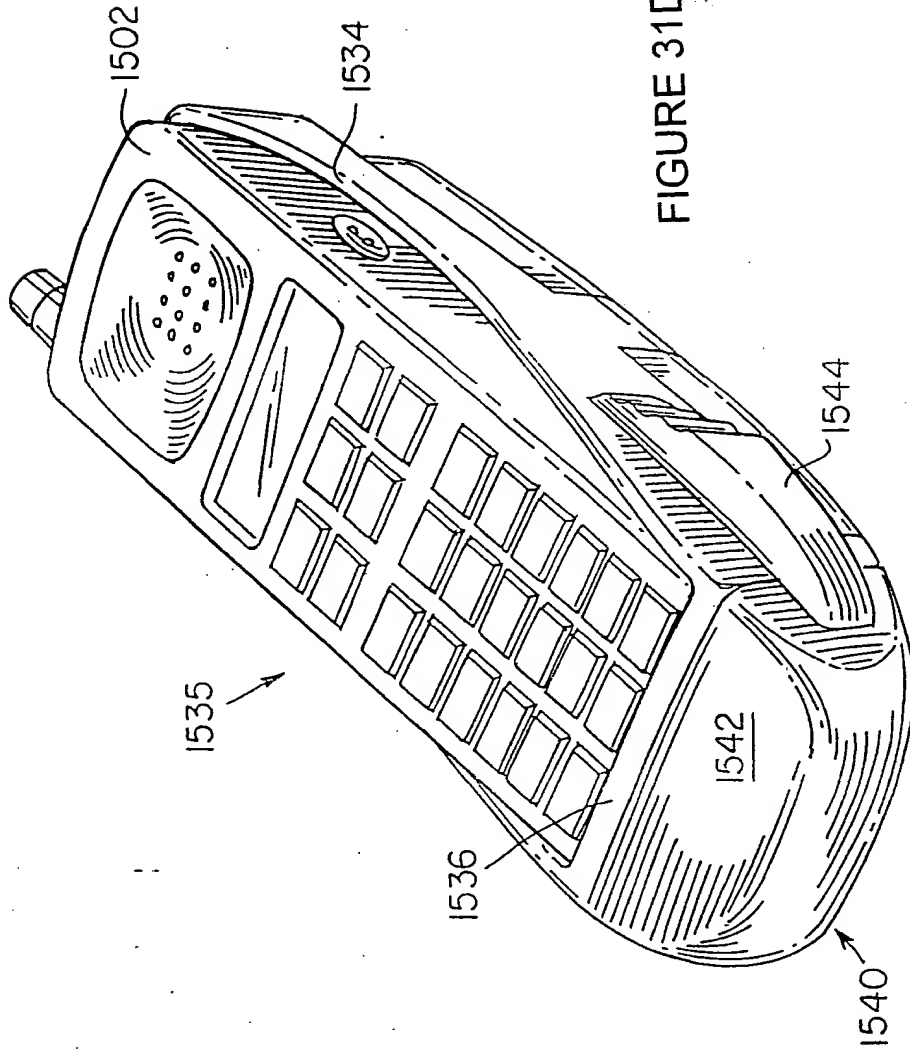


FIGURE 31D

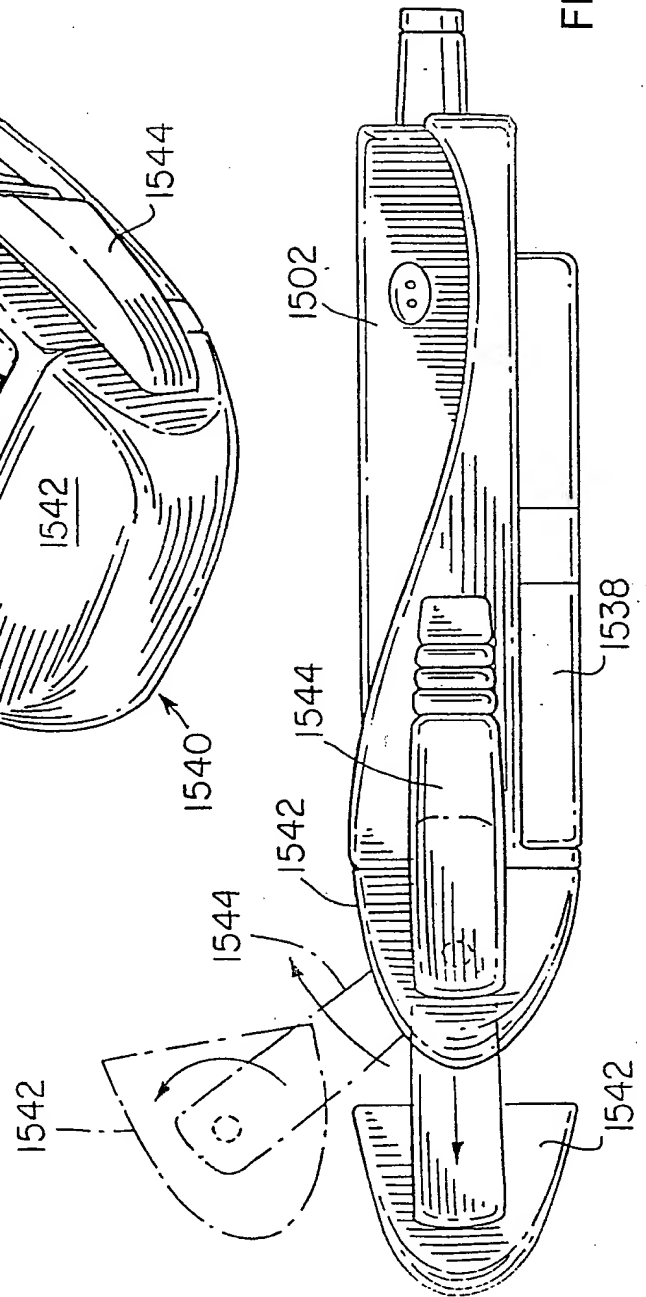


FIGURE 31E

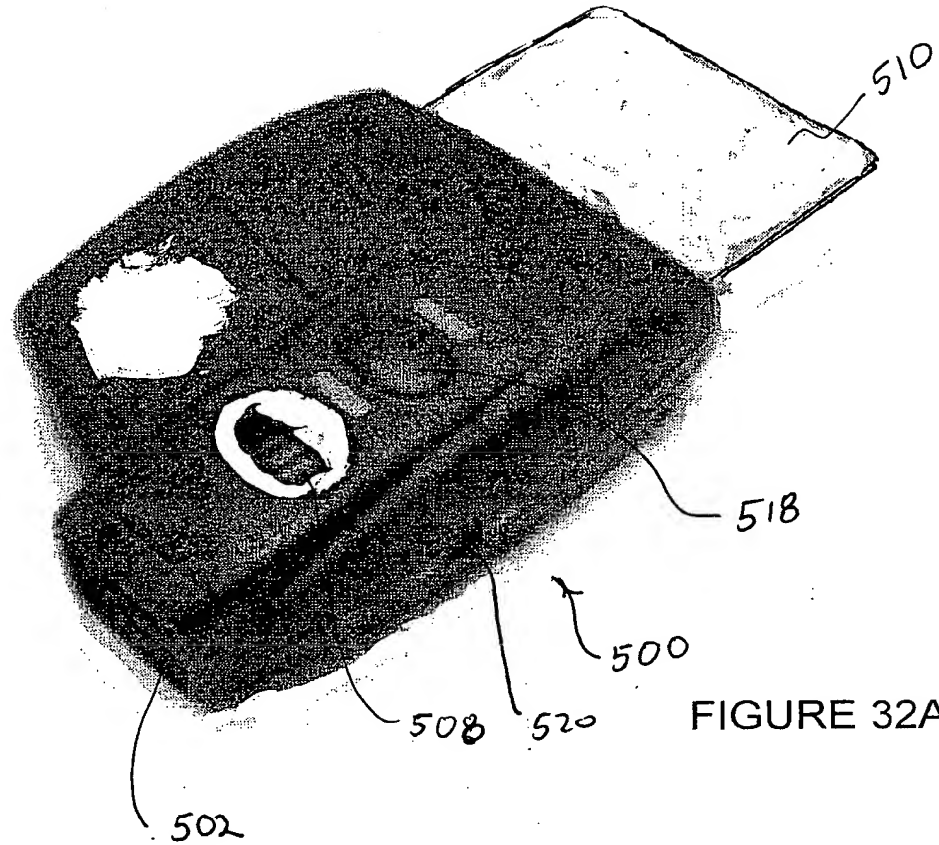


FIGURE 32A

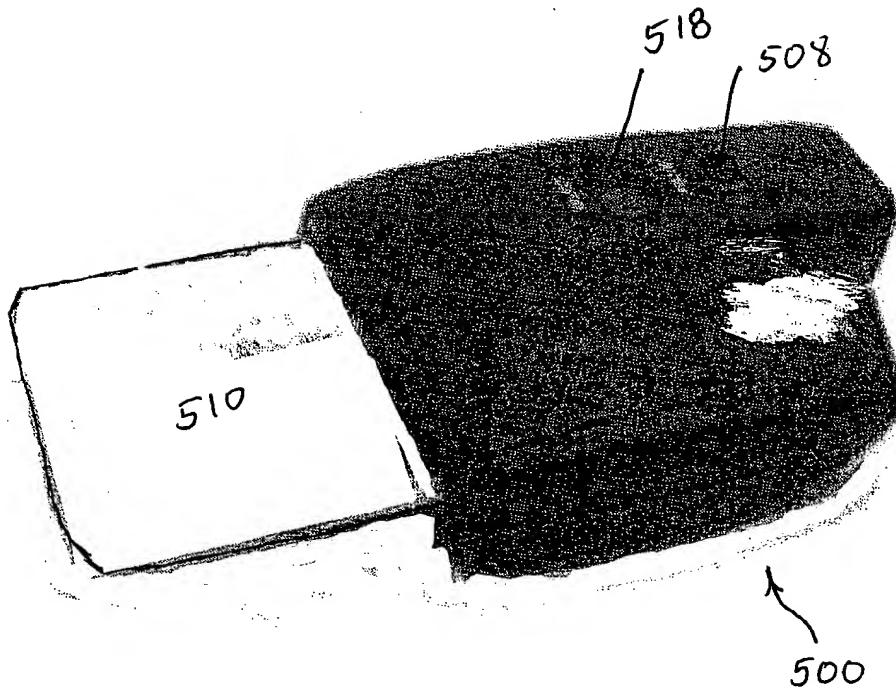


FIGURE 32B

09066061-042498

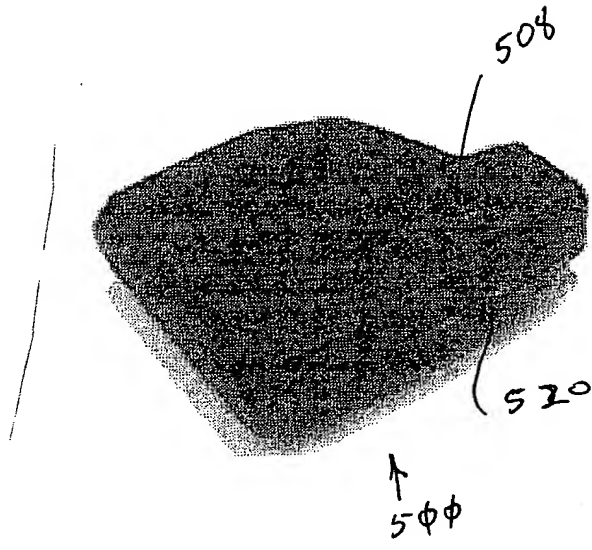


FIGURE 32C

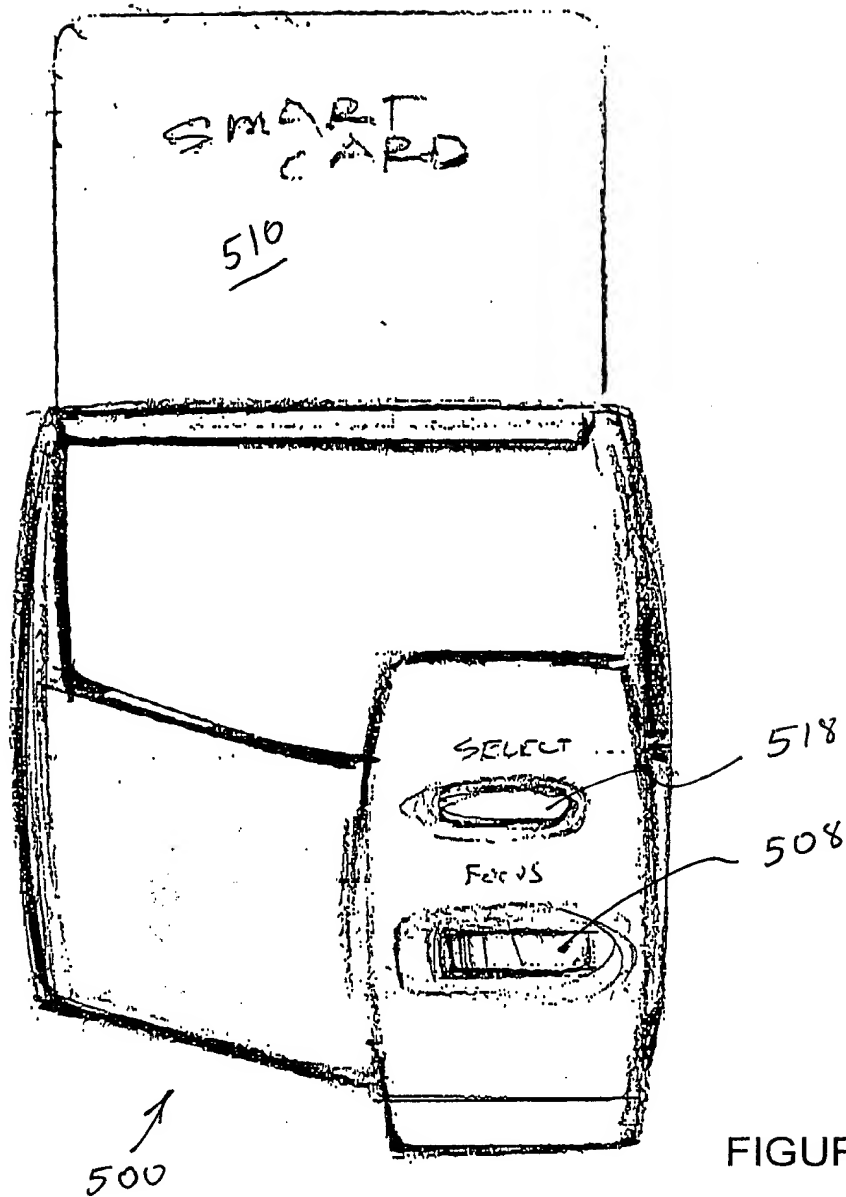


FIGURE 32D

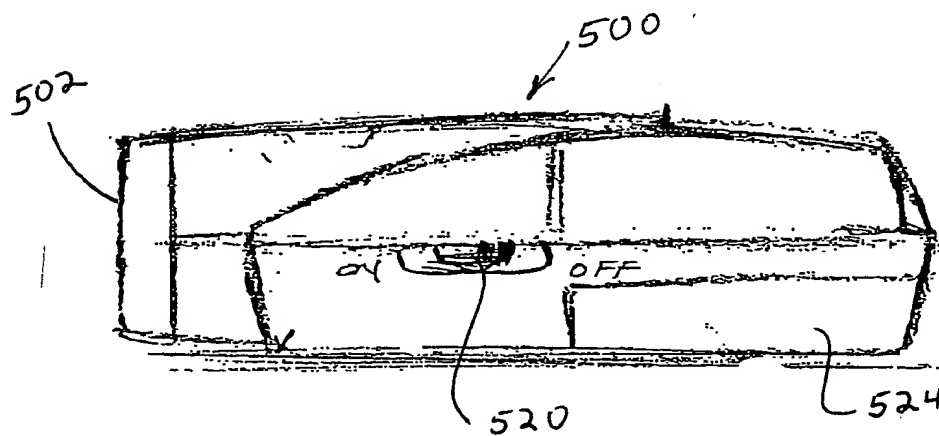
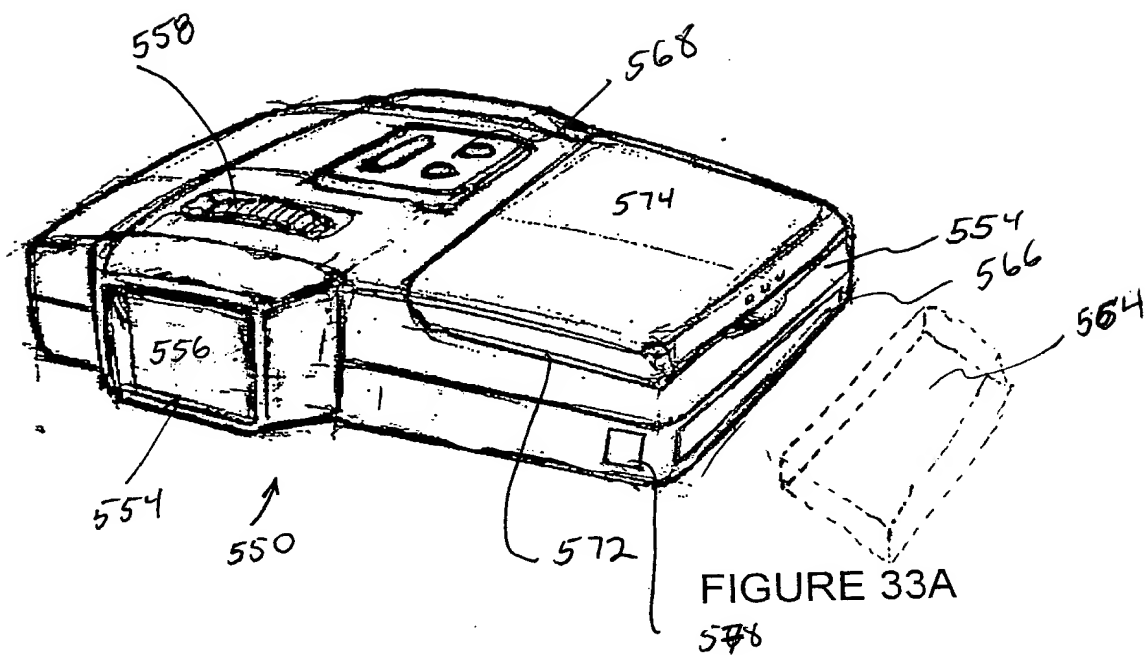


FIGURE 32E



0906061-042498

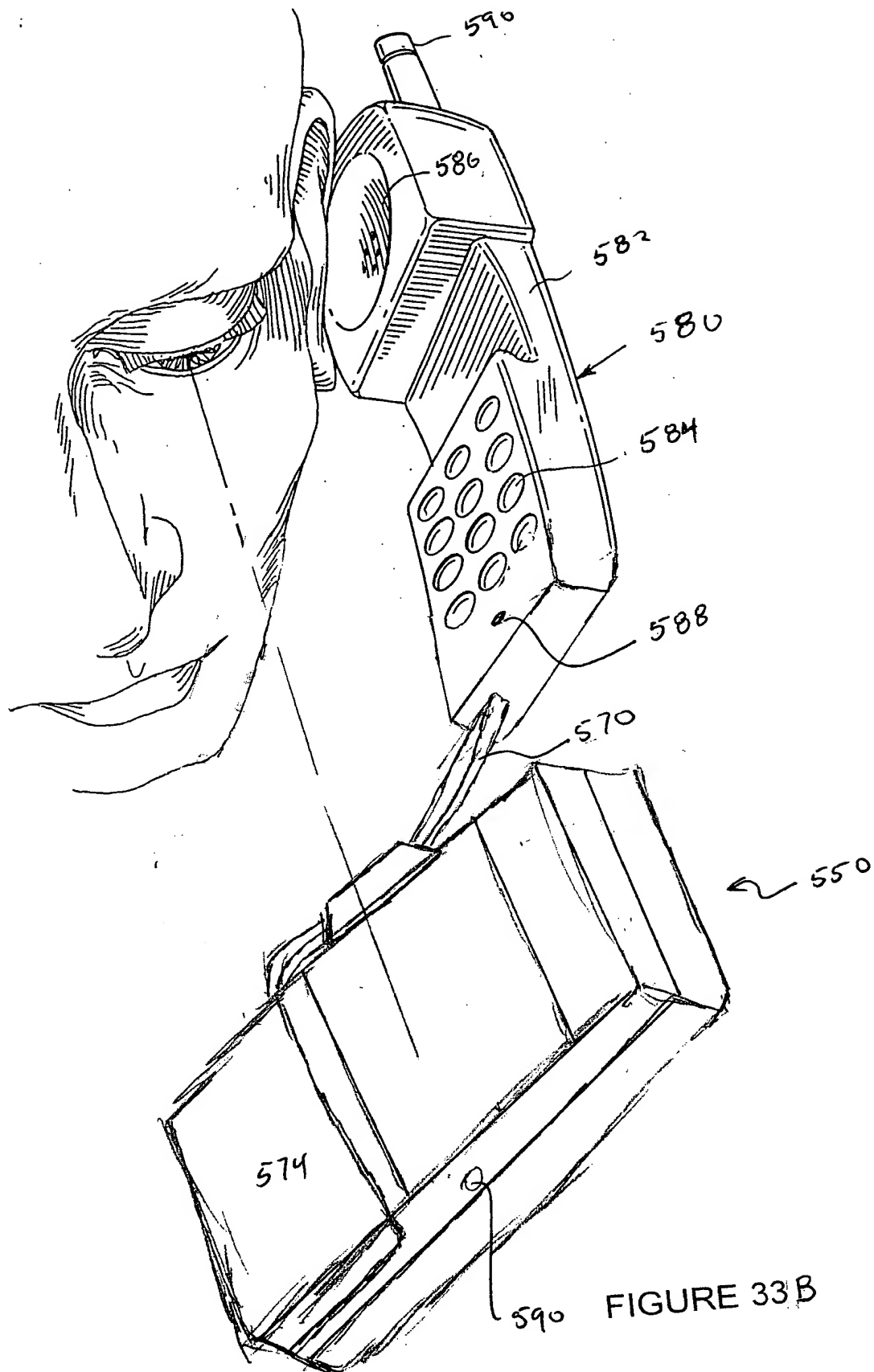


FIGURE 33B

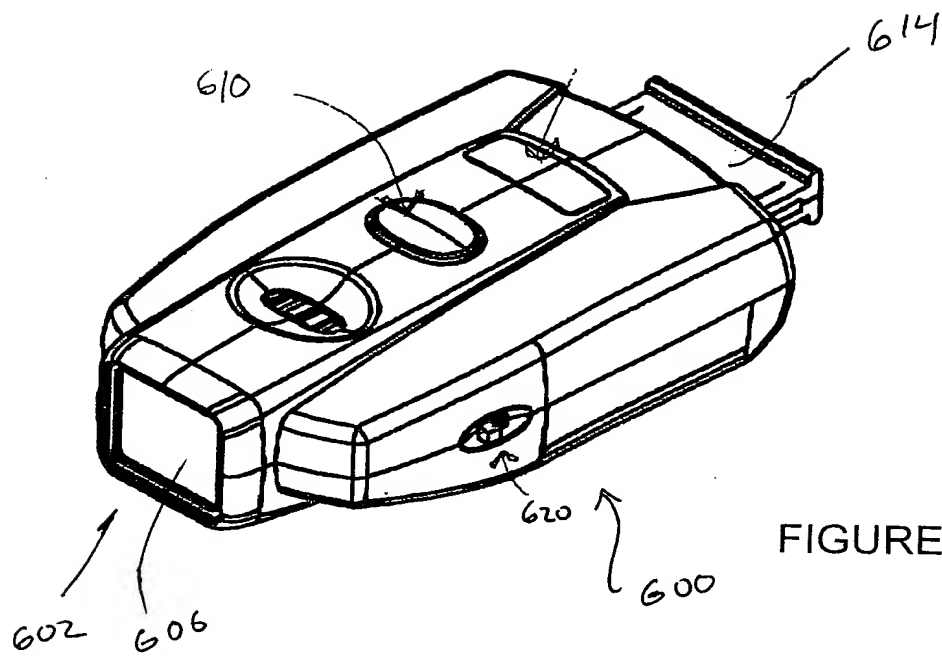


FIGURE 34A

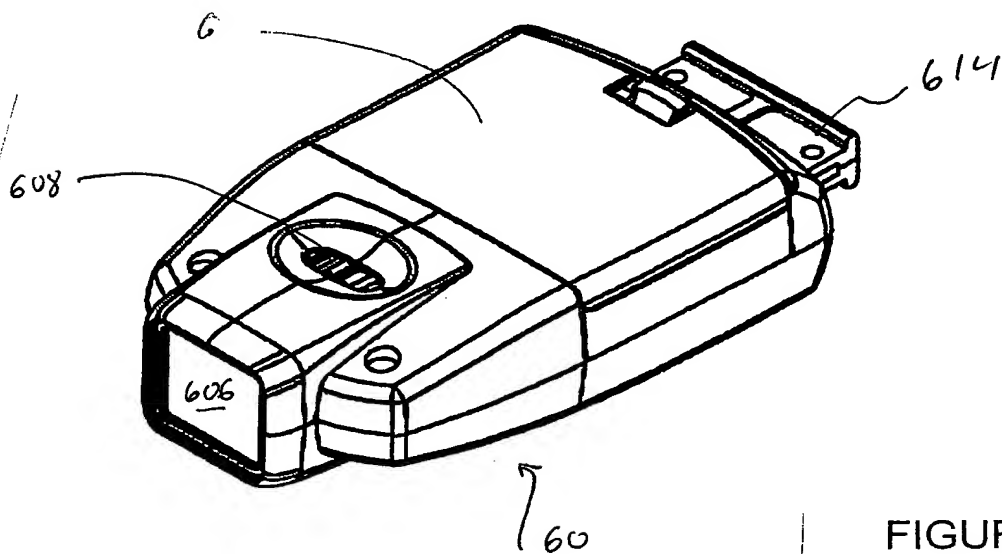


FIGURE 34B

864240" T 9093060

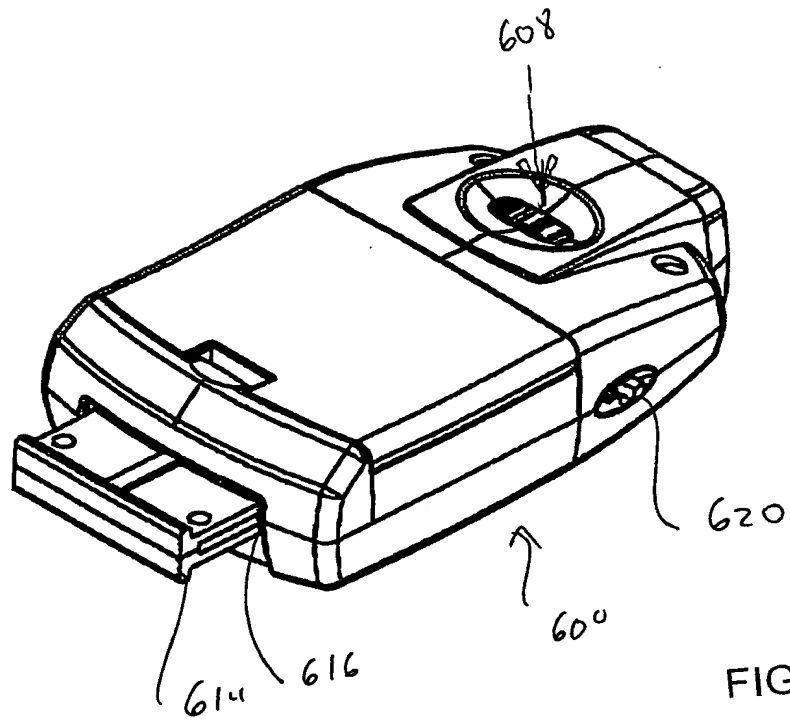


FIGURE 34C

09065061 042498 867270 T9099060

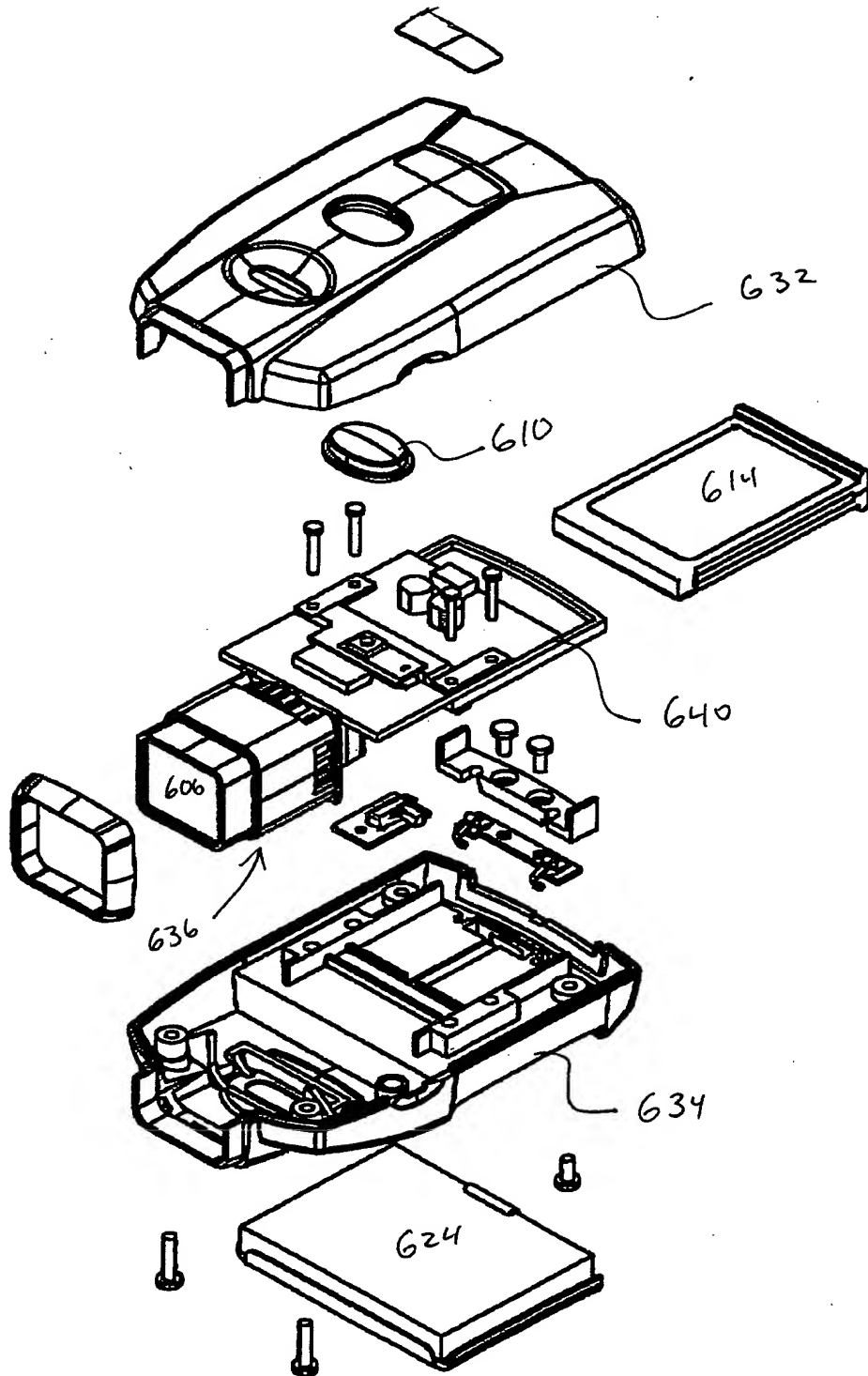


FIGURE 34D